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1.3 commons-lang3 3.2

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1.4 jetty-io 9.4.26.v20200117

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Jetty Web Container
Copyright 1995-2018 Mort Bay Consulting Pty Ltd.
=====

The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd
unless otherwise noted.

Jetty is dual licensed under both

* The Apache 2.0 License
<http://www.apache.org/licenses/LICENSE-2.0.html>

and

* The Eclipse Public 1.0 License
<http://www.eclipse.org/legal/epl-v10.html>

Jetty may be distributed under either license.

Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.5 currently-unhandled 0.4.1

1.5.1 Available under license :

The MIT License (MIT)

Copyright (c) James Talmage <james@talmage.io> (github.com/jamestalmage)

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1.6 set-blocking 2.0.0

1.6.1 Available under license :

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1.7 vary 1.1.2

1.8 node-cross-spawn 7.0.3

1.8.1 Available under license :

The MIT License (MIT)

Copyright (c) 2018 Made With MOXY Lda <hello@moxy.studio>

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1.9 font-awesome 4.2.0

1.9.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*!  
* Bootstrap Responsive v2.3.2  
*  
* Copyright 2012 Twitter, Inc  
* Licensed under the Apache License v2.0  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Designed and built with all the love in the world @twitter by @mdo and @fat.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-  
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/less/bootstrap-2.3.2/responsive.less  
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-  
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/less/responsive.less
```

No license file was found, but licenses were detected in source scan.


```
#[Font Awesome v{{ site.fontawesome.version }}]({{ site.fontawesome.url }})  
###The iconic font and CSS framework
```

Font Awesome is a full suite of {{ icons | size }} pictographic icons for easy scalable vector graphics on websites, created and maintained by [{{ site.fontawesome.author.name }}](<http://twitter.com/{{ site.fontawesome.author.twitter }}>).

Stay up to date [@{{ site.fontawesome.twitter }}](<http://twitter.com/{{ site.fontawesome.twitter }}>).

Get started at <http://{{ site.fontawesome.url }}>!

##License

- The Font Awesome font is licensed under the SIL OFL 1.1:
 - <http://scripts.sil.org/OFL>
- Font Awesome CSS, LESS, and SASS files are licensed under the MIT License:
 - <http://opensource.org/licenses/mit-license.html>
- The Font Awesome documentation is licensed under the CC BY 3.0 License:
 - <http://creativecommons.org/licenses/by/3.0/>
- Attribution is no longer required as of Font Awesome 3.0, but much appreciated:
 - `Font Awesome by Dave Gandy - <http://fontawesome.io>`
- Full details: <http://fontawesome.io/license>

##Changelog

- v3.0.0 - all icons redesigned from scratch, optimized for Bootstrap's 14px default
- v3.0.1 - much improved rendering in webkit, various bug fixes
- v3.0.2 - much improved rendering and alignment in IE7
- v3.1.0 - Added 54 icons, icon stacking styles, flipping and rotating icons, removed SASS support
- [v3.1.1 GitHub milestones](<https://github.com/FortAwesome/Font-Awesome/issues?milestone=4&page=1&state=closed>)
- [v3.2.0 GitHub milestones](<https://github.com/FortAwesome/Font-Awesome/issues?milestone=3&page=1&state=closed>)
- [v3.2.1 GitHub milestones](<https://github.com/FortAwesome/Font-Awesome/issues?milestone=5&page=1&state=closed>)
- [v4.0.0 GitHub milestones](<https://github.com/FortAwesome/Font-Awesome/issues?milestone=2&page=1&state=closed>)
- [v4.0.1 GitHub milestones](<https://github.com/FortAwesome/Font-Awesome/issues?milestone=7&page=1&state=closed>)
- [v4.0.2 GitHub milestones](<https://github.com/FortAwesome/Font-Awesome/issues?milestone=8&page=1&state=closed>)
- [v4.0.3 GitHub milestones](<https://github.com/FortAwesome/Font-Awesome/issues?milestone=9&page=1&state=closed>)
- [v4.1.0 GitHub milestones](<https://github.com/FortAwesome/Font-Awesome/issues?milestone=6&page=1&state=closed>)
- [v4.2.0 GitHub milestones](<https://github.com/FortAwesome/Font-Awesome/issues?milestone=12&page=1&state=closed>)

Contributing

Please read through our [contributing guidelines](<https://github.com/FortAwesome/Font-Awesome/blob/master/CONTRIBUTING.md>).

Included are directions for opening issues, coding standards, and notes on development.

##Versioning

Font Awesome will be maintained under the Semantic Versioning guidelines as much as possible. Releases will be numbered

with the following format:

`<major>.<minor>.<patch>`

And constructed with the following guidelines:

- * Breaking backward compatibility bumps the major (and resets the minor and patch)
- * New additions, including new icons, without breaking backward compatibility bumps the minor (and resets the patch)
- * Bug fixes and misc changes bumps the patch

For more information on SemVer, please visit <http://semver.org>.

##Author

- Email: `{{ site.fontawesome.author.email }}`
- Twitter: `http://twitter.com/{{ site.fontawesome.author.twitter }}`
- GitHub: `https://github.com/{{ site.fontawesome.author.github }}`

##Component

To include as a `[component]`(`http://github.com/component/component`), just run

```
$ component install FortAwesome/Font-Awesome
```

Or add

```
"FontAwesome/Font-Awesome": "*"
```

to the ``dependencies`` in your ``component.json``.

Hacking on Font Awesome

From the root of the repository, install the tools used to develop.

```
$ bundle install
```

```
$ npm install
```

Build the project and documentation:

```
$ bundle exec jekyll build
```

Or serve it on a local server on `http://localhost:7998/Font-Awesome/`:

```
$ bundle exec jekyll serve
```

Found in path(s):

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/README.md-nobuild
```

No license file was found, but licenses were detected in source scan.

```
/*!
```

```
* Font Awesome 4.2.0 by @davegandy - http://fontawesome.io - @fontawesome
```

```
* License - http://fontawesome.io/license (Font: SIL OFL 1.1, CSS: MIT License)
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/css/font-awesome.css
```

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/scss/font-awesome.scss
```

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/less/font-awesome.less
```

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
```

gz/FortAwesome-Font-Awesome-0b92414/css/font-awesome.min.css

No license file was found, but licenses were detected in source scan.

/*! matchMedia() polyfill - Test a CSS media type/query in JS. Authors & copyright (c) 2012: Scott Jehl, Paul Irish, Nicholas Zakas. Dual MIT/BSD license */

Found in path(s):

* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/assets/js/respond.min.js

No license file was found, but licenses were detected in source scan.

Contributing to Font Awesome

Looking to contribute something to Font Awesome? ****Here's how you can help.****

Requesting new icons

New icons mostly start as requests by the [Font Awesome community on GitHub](../issues). Want to request a new icon? Here are some things to keep in mind:

1. Please be nice. Font Awesome is a happy place.
2. Please [search](../search?type=Issues) to see if your icon request already exists. If a request is found, please +1 that one.
3. Please make requests for single icons, unless you are requesting a couple of strictly related icons (e.g., thumbs-up/thumbs-down).
4. Please and thank you if you include the following:
 - Title your [new issue](../issues/new?title=Icon%20Request:%20icon-) `Icon request: icon-name` (e.g., `Icon request: icon-car`).
 - Include a few use cases for your requested icon. How do you plan on using it?
 - Attach a single color image or two that represent the idea you're going for.
 - Request concrete objects: it's harder to make an icon to represent happiness, it's easier to make a smiley face.

Reporting issues

We only accept issues that are icon requests, bug reports, or feature requests. Bugs must be isolated and reproducible problems that we can fix within the Font Awesome core. Please read the following guidelines to ensure you are the paragon of bug reporting.

1. ****Search for existing issues.**** We get a lot of duplicate issues, and you'd help us out a lot by first checking if someone else has reported the same issue. Moreover, the issue may have already been resolved with a fix available.
2. ****Create an isolated and reproducible test case.**** Be sure the problem exists in Font Awesome's code with a [reduced test case](http://css-tricks.com/reduced-test-cases/) that should be included in each bug report.
3. ****Include a live example.**** Make use of jsFiddle, jsBin, or Codepen to share your isolated test cases.
4. ****Share as much information as possible.**** Include operating system and version, browser and version, version

of Font Awesome, etc. where appropriate. Also include steps to reproduce the bug.

Key branches

- `master` is the latest, deployed version (not to be used for pull requests)
- `gh-pages` is the hosted docs (not to be used for pull requests)
- `*-wip` branches are the official work in progress branches for the next releases. All pull requests should be submitted against the appropriate branch

Notes on the repo

As of v3.2.0, Font Awesome's CSS, LESS, SCSS, and documentation are all powered by Jekyll templates and built before each commit and release.

- `_config.yml` - much of the site is driven off variables from this file, including Font Awesome and Bootstrap versions
- `src/` - All edits to documentation, LESS, SCSS, and CSS should be made to files and templates in this directory
- `src/icons.yml` - all LESS, SCSS, and CSS icon definitions are driven off this single file

Pull requests

- At the moment we are not accepting pull requests containing icons
- Submit all pull requests against the appropriate `*-wip` branch for easier merging
- Any changes to the docs must be made to the Liquid templates in the `src` directory
- Any changes to the styles must be made to the .less and .scss files in the `src` directory
- If modifying the .less and .scss files, always recompile and commit the compiled files
- Try not to pollute your pull request with unintended changes--keep them simple and small
- Try to share which browsers your code has been tested in before submitting a pull request

Coding standards: HTML

- Two spaces for indentation, never tabs
- Double quotes only, never single quotes
- Always use proper indentation
- Use tags and elements appropriate for an HTML5 doctype (e.g., self-closing tags)

Coding standards: CSS

- Adhere to the [Recess CSS property order](<http://markdotto.com/2011/11/29/css-property-order/>)

- Multiple-line approach (one property and value per line)
- Always a space after a property's colon (.e.g, `display: block;` and not `display:block;`)
- End all lines with a semi-colon
- For multiple, comma-separated selectors, place each selector on it's own line
- Attribute selectors, like `input[type="text"]` should always wrap the attribute's value in double quotes, for consistency and safety (see this [blog post on unquoted attribute values](http://mathiasbynens.be/notes/unquoted-attribute-values) that can lead to XSS attacks)

License

By contributing your code, you agree to license your contribution under the terms of the MIT License:

- <http://opensource.org/licenses/mit-license.html>

Thanks

Thanks to Bootstrap for their wonderful CONTRIBUTING.MD doc. It was modified to create this one.

Found in path(s):

* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/CONTRIBUTING.md

No license file was found, but licenses were detected in source scan.

Attribution is no longer required as of Font Awesome 3.0 but is much appreciated:

License: SIL OFL 1.1

License: MIT License

License: CC BY 3.0

Font Awesome licensed under [SIL OFL 1.1](http://scripts.sil.org/OFL)

Code licensed under [MIT License](http://opensource.org/licenses/mit-license.html)

Documentation licensed under [CC BY 3.0](http://creativecommons.org/licenses/by/3.0/)

Found in path(s):

* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/license/index.html

No license file was found, but licenses were detected in source scan.

/*!

* Bootstrap v3.1.1 (<http://getbootstrap.com>)

* Copyright 2011-2014 Twitter, Inc.

* Licensed under MIT (<https://github.com/twbs/bootstrap/blob/master/LICENSE>)

*/

Found in path(s):

* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-

gz/FortAwesome-Font-Awesome-0b92414/src/assets/js/bootstrap-3.1.1.min.js

No license file was found, but licenses were detected in source scan.

license:

version: MIT License

Found in path(s):

* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/_config.yml

No license file was found, but licenses were detected in source scan.

/*!

* Bootstrap v2.3.2

*

* Copyright 2012 Twitter, Inc

* Licensed under the Apache License v2.0

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Designed and built with all the love in the world @twitter by @mdo and @fat.

*/

Found in path(s):

* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/less/bootstrap-2.3.2/bootstrap.less

No license file was found, but licenses were detected in source scan.

/*!

* Bootstrap v3.0.2 by @fat and @mdo

* Copyright 2013 Twitter, Inc.

* Licensed under <http://www.apache.org/licenses/LICENSE-2.0>

*

* Designed and built with all the love in the world by @mdo and @fat.

*/

Found in path(s):

* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/assets/js/bootstrap-3.0.2.min.js

No license file was found, but licenses were detected in source scan.

layout: base

title: Font Awesome License

navbar_active: license

relative_path: ../

{% capture jumbotron_h1 %}<i class="fa fa-gavel"></i> License{% endcapture % }

{% capture jumbotron_p %}The full details of how Font Awesome is licensed{% endcapture % }

```

{% include jumbotron.html % }
{% include stripe-social.html % }

<div class="container">
  {% capture stripe_ad_content % }
  <p class="lead">
    Font Awesome is fully open source and is GPL friendly. You can use it for commercial projects, open source
    projects, or really just about whatever you want.
  </p>
  {% endcapture % }
  {% include stripe-ad.html % }

<section>
  <div class="alert alert-success">
    <ul class="fa-ul margin-bottom-none">
      <li>
        <i class="fa-li fa fa-info-circle fa-lg"></i>Attribution is no longer required as of Font Awesome 3.0 but is
much appreciated:
        "Font Awesome by Dave Gandy - http://fontawesome.io".
      </li>
    </ul>
  </div>
</section>

<section>
  <h2 class="page-header">Font License</h2>
  <ul>
    <li>
      Applies to all desktop and webfont files in the following directory:
      <code>font-awesome/fonts/</code>.
    </li>
    <li>License: {{ site.fontawesome.license.font.version }}</li>
    <li>URL: <a href="{{ site.fontawesome.license.font.url }}">{{ site.fontawesome.license.font.url }}</a></li>
  </ul>
</section>

<section>
  <h2 class="page-header">Code License</h2>
  <ul>
    <li>
      Applies to all CSS and LESS files in the following directories:
      <code>font-awesome/css/</code>,
      <code>font-awesome/less/</code>, and
      <code>font-awesome/scss/</code>.
    </li>
    <li>License: {{ site.fontawesome.license.code.version }}</li>
    <li>URL: <a href="{{ site.fontawesome.license.code.url }}">{{ site.fontawesome.license.code.url }}</a></li>
  </ul>

```

</section>

<section>

<h2 class="page-header">Documentation License</h2>

Applies to all Font Awesome project files that are not a part of the Font or Code licenses.

License: {{ site.fontawesome.license.documentation.version }}

URL: {{ site.fontawesome.license.documentation.url }}

</section>

<section>

<h2 class="page-header">Brand Icons</h2>

{% include brand-license.html %}

</section>

</div>

Found in path(s):

* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-targz/FortAwesome-Font-Awesome-0b92414/src/license.html

No license file was found, but licenses were detected in source scan.

/*!

* jQuery JavaScript Library v1.10.2

* http://jquery.com/

*

* Includes Sizzle.js

* http://sizzlejs.com/

*

* Copyright 2005, 2013 jQuery Foundation, Inc. and other contributors

* Released under the MIT license

* http://jquery.org/license

*

* Date: 2013-07-03T13:48Z

*/

Found in path(s):

* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-targz/FortAwesome-Font-Awesome-0b92414/src/assets/js/jquery-1.10.2.js

No license file was found, but licenses were detected in source scan.

/*!

* zeroclipboard

* The Zero Clipboard library provides an easy way to copy text to the clipboard using an invisible Adobe Flash movie, and a JavaScript interface.

* Copyright 2012 Jon Rohan, James M. Greene, .

* Released under the MIT license

* <http://jonrohan.github.com/ZeroClipboard/>
* v1.1.7
*/

Found in path(s):

* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/assets/js/ZeroClipboard-1.1.7.min.js
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/js/ZeroClipboard-1.1.7.min.js
No license file was found, but licenses were detected in source scan.

SIL OFL 1.1 for font, MIT license for code. No more attribution required, but much appreciated.

Font Awesome licensed under [SIL OFL 1.1](http://scripts.sil.org/OFL)

Code licensed under [MIT License](http://opensource.org/licenses/mit-license.html)

Documentation licensed under [CC BY 3.0](http://creativecommons.org/licenses/by/3.0/)

Found in path(s):

* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/whats-new/index.html
No license file was found, but licenses were detected in source scan.

Font Awesome licensed under [SIL OFL 1.1](http://scripts.sil.org/OFL)

Code licensed under [MIT License](http://opensource.org/licenses/mit-license.html)

Documentation licensed under [CC BY 3.0](http://creativecommons.org/licenses/by/3.0/)

Found in path(s):

* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/qrcode/index.html
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/credit-card/index.html
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/lemon/index.html
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/file-alt/index.html
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/linkedin-sign/index.html
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/retweet/index.html
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/medkit/index.html
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/arrow-right/index.html
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/xing-sign/index.html
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/angle-up/index.html
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/star-empty/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/heart/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/bold/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/google-plus/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/chevron-down/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/magnet/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/usd/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/rocket/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/sort-by-order/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/sort/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/skype/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/quote-left/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/exclamation-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/double-angle-down/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/download-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/strikethrough/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/link/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/signal/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/instagram/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/save/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/circle-blank/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/random/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/laptop/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/css3/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/file-text/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/minus-sign-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/bookmark/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/apple/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/volume-up/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/thumbs-up-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/undo/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/smile/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/zoom-in/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/edit-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/archive/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/eraser/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/eur/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/github/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/bookmark-empty/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/share-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/remove-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/pushpin/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/signin/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/cheatsheet/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/rss-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/sort-down/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/question/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/sort-up/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/thumbs-down/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/facebook/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/linkedin/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/desktop/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/th/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/dashboard/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/location-arrow/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/check-empty/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/sort-by-attributes/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/indent-left/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/shield/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/paste/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/list-ol/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/plus/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/shopping-cart/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/android/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/cloud-download/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/facebook-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/sort-by-attributes-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/tag/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/folder-open/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/chevron-sign-right/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/eye-close/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/bar-chart/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/trash/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/unlock-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/inbox/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/stop/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/building/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/money/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/caret-right/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/minus-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/level-up/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/volume-down/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/thumbs-up/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/tint/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/off/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/tablet/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/puzzle-piece/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/upload-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/facetime-video/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/expand/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/th-large/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/columns/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/ellipsis-vertical/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/fighter-jet/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/code/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/h-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/meh/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/signout/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/resize-full/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/chevron-sign-up/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/collapse/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/unlink/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/chevron-sign-down/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/exclamation/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/cog/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/leaf/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/play-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/step-forward/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/angle-right/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/bell-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/text-height/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/resize-small/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/tumblr/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/certificate/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/linux/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/cloud/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/youtube/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/reply-all/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/calendar/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/search/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/vk/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/female/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/envelope-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/beaker/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/btc/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/file-text-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/gbp/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/magic/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/umbrella/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/trello/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/dropbox/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/camera-retro/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/table/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/globe/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/exchange/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/caret-left/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/info-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/examples/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/ticket/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/fullscreen/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/share/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/cut/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/circle/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/ok-circle/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/align-justify/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/sort-by-alphabet/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/home/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/quote-right/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/calendar-empty/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/headphones/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/backward/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/check-minus/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/refresh/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/sun/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/bitbucket/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/long-arrow-down/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/book/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/maxcdn/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/barcode/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/resize-horizontal/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/long-arrow-up/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/picture/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/align-left/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/comment-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/remove/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/keyboard/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/hand-left/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/paper-clip/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/asterisk/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/remove-circle/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/external-link/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/thumbs-down-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/group/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/unlock/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/flag-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/github-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/trophy/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/map-marker/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/windows/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/question-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/ok-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/bullseye/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/circle-arrow-up/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/file/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/adjust/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/stethoscope/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/lock/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/fire-extinguisher/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/gamepad/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/cny/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/folder-close/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/plane/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/anchor/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/tasks/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/arrow-up/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/volume-off/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/collapse-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/move/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/warning-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/youtube-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/music/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/arrow-left/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/eject/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/repeat/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/spinner/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/sort-by-alphabet-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/reorder/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/resize-vertical/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/mail-reply-all/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/star/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/get-started/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/test/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/plus-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/chevron-up/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/comments/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/pause/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/hospital/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/renren/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/compass/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/filter/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/external-link-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/moon/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/xing/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/foursquare/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/bell/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/arrow-down/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/sign-blank/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/ellipsis-horizontal/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/pinterest-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/sitemap/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/chevron-sign-left/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/superscript/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/th-list/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/briefcase/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/fire/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/legal/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/film/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/heart-empty/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/circle-arrow-right/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/wrench/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/long-arrow-right/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/check-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/plus-sign-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/suitcase/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/indent-right/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/code-fork/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/upload/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/hand-up/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/gittip/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/krw/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/coffee/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/angle-left/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/phone/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/crop/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/terminal/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/gift/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/collapse-top/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/pencil/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/bullhorn/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/tumblr-sign/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/ok/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/play-circle/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/time/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/community/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/jpy/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/level-down/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/microphone-off/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/caret-down/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/fast-forward/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/beer/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/inr/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/comment/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/flag-checkered/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/rss/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/double-angle-right/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/hand-right/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/weibo/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/screenshot/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/minus/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/font/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/caret-up/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/food/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/twitter/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/align-right/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/list/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/italic/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/male/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/chevron-left/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/angle-down/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/bug/index.html

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* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/align-center/index.html

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* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/ban-circle/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/camera/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/youtube-play/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/forward/index.html

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* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/google-plus-sign/index.html

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* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/list-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/html5/index.html

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* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/tags/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/zoom-out/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/lightbulb/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/chevron-right/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/expand-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/cogs/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/flickr/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/cloud-upload/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/user/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/truck/index.html

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* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/print/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/folder-open-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/pinterest/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/folder-close-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/ambulance/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/info/index.html

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* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icons/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/share-alt/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/step-backward/index.html

* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/glass/index.html

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* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/hdd/index.html
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* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/circle-arrow-down/index.html
* /opt/cola/permits/1285030861_1646871880.74/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/icon/long-arrow-left/index.html

No license file was found, but licenses were detected in source scan.

<footer id="footer" class="footer hidden-print">

<div class="container text-center">

<div id="bsap_1298241" class="bsarocks bsap_b1146e3f9fa32a794fc6d2c7be47ece8"></div>

</div>

```

<i class="fa fa-flag"></i> Font Awesome {{ site.fontawesome.version }}
<span class="hide-xs">&middot;</span><br class="hide-sm hide-md hide-lg">
Created by <a href="http://twitter.com/{{ site.fontawesome.author.twitter }}">Dave Gandy</a>
</div>
<div>
Font Awesome licensed under <a href="{{ site.fontawesome.license.font.url }}">{{
site.fontawesome.license.font.version }}</a>
<span class="hide-xs">&middot;</span><br class="hide-sm hide-md hide-lg">
Code licensed under <a href="{{ site.fontawesome.license.code.url }}">{{
site.fontawesome.license.code.version }}</a>
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Documentation licensed under <a href="{{ site.fontawesome.license.documentation.url }}">{{
site.fontawesome.license.documentation.version }}</a>
</div>
<div>
Thanks to <a href="http://maxcdn.com"><i class="fa fa-maxcdn"></i> MaxCDN</a> for providing the excellent
<a href="http://www.bootstrapcdn.com/#fontawesome_tab">BootstrapCDN for Font Awesome</a>
</div>
<div class="project">
<a href="{{ site.fontawesome.github.url }}">GitHub Project</a> &middot;
<a href="{{ site.fontawesome.github.url }}/issues">Issues</a> &middot;
<a href="{{ page.relative_path }}3.2.1">Old 3.2.1 Docs</a>
</div>
</div>
</footer>

```

Found in path(s):

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/_includes/footer.html
```

No license file was found, but licenses were detected in source scan.

// Underscore is freely distributable under the MIT license.

Found in path(s):

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/assets/js/underscore.min.js
```

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/js/underscore.min.js
```

No license file was found, but licenses were detected in source scan.

// Backbone may be freely distributed under the MIT license.

Found in path(s):

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/js/backbone.min.js
```

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/assets/js/backbone.min.js
```

No license file was found, but licenses were detected in source scan.

#[Font Awesome v4.2.0](http://fontawesome.io)

###The iconic font and CSS framework

Font Awesome is a full suite of 479 pictographic icons for easy scalable vector graphics on websites, created and maintained by [Dave Gandy](http://twitter.com/davegandy).

Stay up to date [@fontawesome](http://twitter.com/fontawesome).

Get started at <http://fontawesome.io>!

##License

- The Font Awesome font is licensed under the SIL OFL 1.1:
 - <http://scripts.sil.org/OFL>
- Font Awesome CSS, LESS, and SASS files are licensed under the MIT License:
 - <http://opensource.org/licenses/mit-license.html>
- The Font Awesome documentation is licensed under the CC BY 3.0 License:
 - <http://creativecommons.org/licenses/by/3.0/>
- Attribution is no longer required as of Font Awesome 3.0, but much appreciated:
 - `Font Awesome by Dave Gandy - <http://fontawesome.io>`
- Full details: <http://fontawesome.io/license>

##Changelog

- v3.0.0 - all icons redesigned from scratch, optimized for Bootstrap's 14px default
- v3.0.1 - much improved rendering in webkit, various bug fixes
- v3.0.2 - much improved rendering and alignment in IE7
- v3.1.0 - Added 54 icons, icon stacking styles, flipping and rotating icons, removed SASS support
- [v3.1.1 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=4&page=1&state=closed)
- [v3.2.0 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=3&page=1&state=closed)
- [v3.2.1 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=5&page=1&state=closed)
- [v4.0.0 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=2&page=1&state=closed)
- [v4.0.1 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=7&page=1&state=closed)
- [v4.0.2 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=8&page=1&state=closed)
- [v4.0.3 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=9&page=1&state=closed)
- [v4.1.0 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=6&page=1&state=closed)
- [v4.2.0 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=12&page=1&state=closed)

Contributing

Please read through our [contributing guidelines](https://github.com/FortAwesome/Font-Awesome/blob/master/CONTRIBUTING.md).

Included are directions for opening issues, coding standards, and notes on development.

##Versioning

Font Awesome will be maintained under the Semantic Versioning guidelines as much as possible. Releases will be numbered

with the following format:

```
<major>.<minor>.<patch>
```

And constructed with the following guidelines:

- * Breaking backward compatibility bumps the major (and resets the minor and patch)
- * New additions, including new icons, without breaking backward compatibility bumps the minor (and resets the patch)
- * Bug fixes and misc changes bumps the patch

For more information on SemVer, please visit <http://semver.org>.

##Author

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- Twitter: <http://twitter.com/davegandy>
- GitHub: <https://github.com/davegandy>

##Component

To include as a [component](http://github.com/component/component), just run

```
$ component install FortAwesome/Font-Awesome
```

Or add

```
"FontAwesome/Font-Awesome": "*" 
```

to the `dependencies` in your `component.json`.

Hacking on Font Awesome

From the root of the repository, install the tools used to develop.

```
$ bundle install
```

```
$ npm install
```

Build the project and documentation:

```
$ bundle exec jekyll build
```

Or serve it on a local server on <http://localhost:7998/Font-Awesome/>:

```
$ bundle exec jekyll serve
```

Found in path(s):

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/README.md
```

No license file was found, but licenses were detected in source scan.

```
/*! normalize.css v3.0.1 | MIT License | git.io/normalize */
```

Found in path(s):

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/assets/less/bootstrap-3.2.0/normalize.less
```

No license file was found, but licenses were detected in source scan.

```
/*!
```

```
* Font Awesome 3.2.1
```

```
* the iconic font designed for Bootstrap
```

```
* -----
```

```
* The full suite of pictographic icons, examples, and documentation can be
```

```
* found at http://fontawesome.io. Stay up to date on Twitter at
```

```
* http://twitter.com/fontawesome.
```

```
*
```

```
* License
```

```
* -----
```

```
* - The Font Awesome font is licensed under SIL OFL 1.1 -
```

```
* http://scripts.sil.org/OFL
```

```
* - Font Awesome CSS, LESS, and SASS files are licensed under MIT License -
```

```
* http://opensource.org/licenses/mit-license.html
```

```
* - Font Awesome documentation licensed under CC BY 3.0 -
```

```
* http://creativecommons.org/licenses/by/3.0/
```

```
* - Attribution is no longer required in Font Awesome 3.0, but much appreciated:
```

```
* "Font Awesome by Dave Gandy - http://fontawesome.io"
```

```
*
```

```
* Author - Dave Gandy
```

```
* -----
```

```
* Email: dave@fontawesome.io
```

```
* Twitter: http://twitter.com/davegandy
```

```
* Work: Lead Product Designer @ Kyruus - http://kyruus.com
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/font-awesome-zip/font-awesome/css/font-awesome.css
```

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/font-awesome/less/font-awesome-ie7.less
```

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
```



```
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/font-awesome/scss/font-awesome.scss
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/font-awesome/css/font-awesome.css
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/font-awesome-zip/font-awesome/css/font-awesome-
ie7.css
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/font-awesome/less/font-awesome.less
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/font-awesome-zip/font-awesome/scss/font-awesome.scss
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/font-awesome/css/font-awesome-ie7.css
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/font-awesome-zip/font-awesome/less/font-awesome-
ie7.less
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/font-awesome/scss/font-awesome-ie7.scss
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/font-awesome-zip/font-awesome/less/font-awesome.less
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/font-awesome-zip/font-awesome/scss/font-awesome-
ie7.scss
```

No license file was found, but licenses were detected in source scan.

```
/*!  
* Bootstrap.js by @fat & @mdo  
* Copyright 2012 Twitter, Inc.  
* http://www.apache.org/licenses/LICENSE-2.0.txt  
*/
```

Found in path(s):

```
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
gz/FortAwesome-Font-Awesome-0b92414/src/assets/js/bootstrap-2.3.1.min.js
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/js/bootstrap-222.min.js
* /opt/cola/permits/1285030861_1646871880.74/0/fortawesome-font-awesome-v4-2-0-0-ga65bd93-tar-
gz/FortAwesome-Font-Awesome-0b92414/src/3.2.1/assets/js/bootstrap-2.3.1.min.js
```

1.10 jshttp-fresh 0.5.2

1.10.1 Available under license :

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1.11 jetty-http 9.4.26.v20200117

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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.12 find-up 3.0.0

1.13 commons-net 3.7.2

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1.14 builtin-status-codes 3.0.0

1.15 types-istanbul-lib-report 3.0.0

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1.16 commons-logging 1.2

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jar/org/apache/commons/logging/LogFactory.java

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/package.html

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/package.html

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Found in path(s):

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogConfigurationException.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-

```
jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/Log.java
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```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
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```

1.17 slf4j 1.7.31

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 *
 */

Found in path(s):

* /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/SubstituteLogger.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/IMarkerFactory.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/spi/MDCAdapter.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/Marker.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/MessageFormatter.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/NOPLoggerFactory.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/NOPLogger.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/spi/LocationAwareLogger.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/NamedLoggerBase.java
 * /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-

```

jar/org/slf4j/helpers/FormattingTuple.java
* /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/MDC.java
* /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-
jar/org/slf4j/helpers/BasicMarkerFactory.java
* /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-
jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-
jar/org/slf4j/impl/StaticMDCBinder.java
* /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-
jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/Util.java
* /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-
jar/org/slf4j/spi/MarkerFactoryBinder.java
* /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/ILoggerFactory.java
* /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/LoggerFactory.java
* /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/Logger.java
* /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/BasicMarker.java
* /opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/MarkerFactory.java

```

1.18 concat-stream 1.6.2

1.19 desandro-get-style-property 1.0.4

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```

/*!
* getStyleProperty v1.0.4
* original by kangax
* http://perfectionkills.com/feature-testing-css-properties/
* MIT license
*/

```

Found in path(s):

```

* /opt/cola/permits/1287139801_1647238951.89/0/desandro-get-style-property-1-0-4-tgz/package/get-style-
property.js

```

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```

# getStyleProperty - quick & dirty CSS property testing

```

```

[Original by @kangax](https://github.com/kangax/cft/blob/gh-pages/getStyleProperty.js) :heart_eyes: :zap: :star2:.
See [perfectionkills.com/feature-testing-css-properties/](http://perfectionkills.com/feature-testing-css-properties/)

```

```

``` js
var transformProp = getStyleProperty('transform');

```

```
// returns WebkitTransform on Chrome / Safari
// or transform on Firefox, or MozTransform on old firefox

// then you can use it when setting CSS
element.style[transformProp] = 'translate(12px, 34px)';

// or simply check if its supported
var supportsTranforms = !!transformProp;
...

Install

[Bower](http://bower.io) :bird: `bower install get-style-property`

npm: `npm install desandro-get-style-property`

[Component](http://github.com/component/component): `component install desandro/get-style-property`

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Found in path(s):
* /opt/cola/permits/1287139801_1647238951.89/0/desandro-get-style-property-1-0-4-tgz/package/README.md
```

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```
* /opt/cola/permits/1019305209_1622636890.71/0/stable-0-1-8-zip/stable-0.1.8/stable.min.js
```

```
* /opt/cola/permits/1019305209_1622636890.71/0/stable-0-1-8-zip/stable-0.1.8/stable.js
```

```
* /opt/cola/permits/1019305209_1622636890.71/0/stable-0-1-8-zip/stable-0.1.8/src/banner.js
```

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## 1.22 logback-core 1.2.11

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## 1.26 j2objc-annotations 1.3

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Found in path(s):

```
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/RetainedWith.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/ReflectionSupport.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/RetainedLocalRef.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/Property.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/LoopTranslation.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
```

```
jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/ObjectiveCName.java
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```
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/Weak.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/AutoreleasePool.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/WeakOuter.java
```

## 1.27 nimbus-jose-jwt 9.23

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\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/source/JWKSecurityContextJWKSet.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/ECDHCryptoProvider.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/proc/JOSEObjectTypeVerifier.java

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\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/Ed25519Verifier.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/util/Base64Codec.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/Ed25519Signer.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/X25519Decrypter.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/JWKSet.java

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jar/com/nimbusds/jose/crypto/factories/DefaultJWSSignerFactory.java

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\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/ECDH1PUEncrypter.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/ECDH1PU.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/ECDH1PUX25519Decrypter.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/ECDH1PUX25519Encrypter.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/JSONSerializable.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/ECDH1PUCryptoProvider.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-

jar/com/nimbusds/jose/mint/package-info.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/util/Pair.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/XC20P.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/JWSObjectJSON.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/ECDH1PUDecrypter.java  
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\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/bc/BouncyCastleFIPSProviderSingleton.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/bc/package-info.java  
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\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/KeyTypeException.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/util/package-info.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/crypto/ECDSASigner.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/crypto/bc/BouncyCastleProviderSingleton.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jwt/proc/ConfigurableJWTProcessor.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/proc/JOSEProcessor.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/JWSSigner.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jwt/proc/BadJWTException.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/crypto/MACSigner.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/crypto/PasswordBasedDecrypter.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/RemoteKeySourceException.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/crypto/ECDSAVerifier.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/jwk/KeyType.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/jwk/RSAPublicKey.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/proc/JWEKeySelector.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/crypto/factories/package-info.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/JOSEObject.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/JWSHeader.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/JWECryptoParts.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/KeyException.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-

jar/com/nimbusds/jwt/JWTClaimsSetTransformer.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jwt/proc/ClockSkewAware.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/proc/BadJOSEException.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jwt/JWTClaimsSet.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jwt/proc/DefaultJWTClaimsVerifier.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/EncryptionMethod.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jca/package-info.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jwt/JWTParser.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/source/RemoteJWKSet.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/proc/BadJWEException.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/PasswordBasedEncrypter.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/JWK.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/Requirement.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/RSASSAVerifier.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/PlainObject.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jwt/package-info.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/ThumbprintUtils.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/OctetSequenceKey.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/KeyConverter.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/RSASSASigner.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/JWKMetadata.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/ECKey.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/PlainHeader.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jwt/proc/package-info.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-



jar/com/nimbusds/jose/util/BigIntegerUtils.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/source/JWKSource.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/JWSObject.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/JWEDecrypter.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/factories/DefaultJWSVerifierFactory.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/KeySourceException.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/proc/package-info.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/CommonSEHeader.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/proc/BadJWSException.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/DirectDecrypter.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/JOSEException.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/AsymmetricJWK.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/JWEHeader.java  
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```
/*
* nimbus-jose-jwt
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- \* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/crypto/impl/CompositeKey.java
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\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/PasswordBasedCryptoProvider.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/util/Container.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/DirectCryptoProvider.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/PEMEncodedKeyParser.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/AESCryptoProvider.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/proc/DefaultJOSEObjectTypeVerifier.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/proc/JWKSecurityContext.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/CompletableJWSObjectSigning.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-

jar/com/nimbusds/jose/jwk/gen/RSAKeyGenerator.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/utils/ConstantTimeUtils.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/JWKException.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/EdDSAProvider.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/opts/OptionUtils.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/AESGCMKW.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/ECDSA.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/HMAC.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/KeyUseAndOpsConsistency.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/produce/JWSSignerFactory.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/AuthenticatedCipherText.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/AESEncrypter.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/CurveBasedJWK.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/opts/AllowWeakRSAKey.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/PRFParams.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/DeflateHelper.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/opts/UserAuthenticationRequired.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/JWSSignerOption.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/ThumbprintURI.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/AlgorithmParametersHelper.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/gen/JWKGenerator.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/source/JWKSetCache.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/ConcatKDF.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/ECDH.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-

jar/com/nimbusds/jose/crypto/impl/RSA\_OAEP\_SHA2.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/RSA1\_5.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/HeaderValidation.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/util/KeyUtils.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/crypto/impl/package-info.java  
\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/produce/package-info.java  
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\* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-  
jar/com/nimbusds/jose/jwk/gen/OctetKeyPairGenerator.java  
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- \* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/proc/JWEDecryptionKeySelector.java
- \* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/proc/JWSVerificationKeySelector.java
- \* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/proc/DefaultJOSEProcessor.java
- \* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/proc/JOSEProcessorConfiguration.java
- \* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/proc/JWSAlgorithmFamilyJWSKeySelector.java
- \* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/jwk/JWKMatcher.java
- \* /opt/cola/permits/1346018758\_1655395483.0758605/0/nimbus-jose-jwt-9-23-sources-1-jar/com/nimbusds/jose/crypto/ECDHEncrypter.java

## 1.28 uniqs 2.0.0

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## 1.29 postcss-color-functional-notation 2.0.1

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## 1.30 angularjs 1.6.5

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## 1.31 jackson 1.9.2

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* /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-jar/org/codehaus/jackson/JsonStreamContext.java
```

```
* /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-jar/org/codehaus/jackson/Base64Variant.java
```

```
* /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-jar/org/codehaus/jackson/JsonParser.java
```

```
* /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-
jar/org/codehaus/jackson/JsonFactory.java
* /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-
jar/org/codehaus/jackson/JsonGenerator.java
* /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-
jar/org/codehaus/jackson/Base64Variants.java
* /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-
jar/org/codehaus/jackson/util/ByteArrayBuilder.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/package-
info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Strings.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
```

jar/com/google/common/primitives/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Atomics.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/Equivalence.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/annotations/Beta.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java  
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jar/com/google/common/util/concurrent/ListeningExecutorService.java  
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jar/com/google/common/base/PatternCompiler.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/CommonMatcher.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/CommonPattern.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/JdkPattern.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AtomicLongMap.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableValueGraph.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractGraph.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MoreCollectors.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableValueGraph.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ElementOrder.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ValueGraphBuilder.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java  
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jar/com/google/common/graph/NetworkConnections.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
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jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java

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jar/com/google/common/graph/StandardNetwork.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/graph/MapRetrievalCache.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/graph/DirectedMultiNetworkConnections.java

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jar/com/google/common/graph/GraphConnections.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/graph/AbstractGraphBuilder.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/graph/NetworkBuilder.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/graph/MapIteratorCache.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/graph/AbstractDirectedNetworkConnections.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/graph/StandardMutableGraph.java

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\* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular

\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/primitives/DoublesMethodsForWeb.java  
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 * the License.
 */
/**
 * Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
 * version.
 */
```

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jar/com/google/common/primitives/IntsMethodsForWeb.java  
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jar/com/google/common/collect/ImmutableSortedAsList.java  
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```
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```

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CollectSpliterators.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/package-info.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMapEntry.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/MapDifference.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/EnumBiMap.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Predicates.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Function.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Throwables.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/AsyncEventBus.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Primitives.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableWeakReference.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionList.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/DeadEvent.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Files.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LineReader.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Preconditions.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableReferenceQueue.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Objects.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Charsets.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Subscribe.java

- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MultiInputStream.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Flushables.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Supplier.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableReference.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Interners.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Closeables.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/EventBus.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizablePhantomReference.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LineBuffer.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Suppliers.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/package-info.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/DirectExecutor.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumMultiset.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashBiMap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/AllowConcurrentEvents.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataInputStream.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Defaults.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CountingOutputStream.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFuture.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/AbstractIterator.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Functions.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CountingInputStream.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataOutputStream.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharStreams.java



\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteStreams.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableDoubleArray.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingLock.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractHashFunction.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java

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- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Java8Compatibility.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/ToDoubleRounder.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/BigDecimalMath.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Java8Compatibility.java

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- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Streams.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Platform.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Internal.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncCallable.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/FarmHashFingerprint64.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ReaderInputStream.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/MacHashFunction.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ConsumingQueueIterator.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CombinedFuture.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Platform.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/InterruptibleTask.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFutureState.java

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jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ExecutionSequencer.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/IgnoreJRERRequirement.java
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*
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap class.
*/
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Striped.java
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jar/com/google/common/primitives/UnsignedInts.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/WrappingExecutorService.java
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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractScheduledService.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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jar/com/google/common/util/concurrent/UncheckedExecutionException.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/Weigher.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/CacheStats.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/AbstractCompositeHashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/Hashing.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/AbstractLoadingCache.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/ForwardingLoadingCache.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/CacheBuilderSpec.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/Optional.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/DescendingImmutableSortedMultiset.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
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jar/com/google/common/hash/Murmur3\_32HashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/PrimitiveSink.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/AbstractHasher.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/RemovalListeners.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
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jar/com/google/common/reflect/TypeParameter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/RegularImmutableMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ForwardingExecutorService.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/base/PairwiseEquivalence.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/TreeRangeSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/RegularContiguousSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/Absent.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/RemovalNotification.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/Hasher.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/HashCode.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/net/MediaType.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/AbstractStreamingHasher.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/Crc32cHashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Uninterruptibles.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/net/HostAndPort.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/Murmur3\_128HashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/Enums.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/math/MathPreconditions.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/MessageDigestHashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/primitives/UnsignedLongs.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/RemovalListener.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/net/HttpHeaders.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/RemovalCause.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/math/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/FunctionalEquivalence.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AsyncFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/Cache.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/BloomFilterStrategies.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/math/BigIntegerMath.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/AbstractCache.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ExecutionError.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/math/IntMath.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/HashingOutputStream.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/EmptyContiguousSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/math/DoubleMath.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/Funnels.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/CacheLoader.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/AbstractNonStreamingHashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/Funnel.java  
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jar/com/google/common/cache/ForwardingCache.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Queues.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/math/LongMath.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/math/DoubleUtils.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractSortedMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/LoadingCache.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/primitives/ParseRequest.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/FutureCallback.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-



jar/com/google/common/hash/BloomFilter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/HashFunction.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/RegularImmutableSortedMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/GeneralRange.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingSortedMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/SortedIterable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/RangeSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractRangeSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Count.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/SortedIterables.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableSortedMultiset.java  
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\*/  
/\*\*

\* Returns an array containing all of the elements in the specified collection. This method  
\* returns the elements in the order they are returned by the collection's iterator. The returned  
\* array is "safe" in that no references to it are maintained by the collection. The caller is  
\* thus free to modify the returned array.  
\*  
\* <p>This method assumes that the collection size doesn't change while the method is running.  
\*  
\* <p>TODO(kevinb): support concurrently modified collections?  
\*  
\* @param c the collection for which to return an array of elements  
\*/

Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ObjectArrays.java

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\* This method was rewritten in Java from an intermediate step of the Murmur hash function in  
\* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the  
\* following header:

\*

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Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/SmallCharMatcher.java

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Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberRegistry.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Dispatcher.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/MoreObjects.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenerCallQueue.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/Quantiles.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Subscriber.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/AppendableWriter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeToken.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FluentFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeLimiter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Futures.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CollectionFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CaseFormat.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/CharEscaper.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/PatternFilenameFilter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/CharEscaperBuilder.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeoutFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ImmediateFuture.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/VisibleForTesting.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Java8Usage.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/HashingInputStream.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/VerifyException.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Runnables.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/eventbus/SubscriberExceptionContext.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/FilteredMultimapValues.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/io/CharSequenceReader.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/Utf8.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java  
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Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/JdkBackedImmutableMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/BaseImmutableMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/JdkBackedImmutableBiMap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/IndexedImmutableSet.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredKeySetMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredKeyListMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AllEqualOrdering.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TransformedListIterator.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredEntrySetMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedMultisetBridge.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactLinkedHashSet.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactLinkedHashMap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredSetMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashMap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableEnumMap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingImmutableList.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingDeque.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/TransformedIterator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/TreeTraverser.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/CompactHashSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/DescendingMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/FilteredEntryMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/RangeMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingNavigableSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/TreeRangeMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/DescendingImmutableSortedSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/EvictingQueue.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingNavigableMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractNavigableMap.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/package-info.java

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/\*\*  
\* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular  
\* version.  
\*/

Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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/\*  
\* This following method is a modified version of one found in  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/MoreExecutors.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapEntry.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MultimapBuilder.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MoreFiles.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableEntry.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Tables.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Serialization.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/StandardTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/PeekingIterator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableBiMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableBiMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableBiMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapValues.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Collections2.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapEntrySet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/collect/ImmutableCollection.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Table.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/EmptyImmutableListMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/CollectPreconditions.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/HashBasedTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Platform.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/TreeBasedTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/StandardRowSortedTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Range.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/UnmodifiableIterator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableMapKeySet.java  
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\* Holder for web specializations of methods of { @code Shorts}. Intended to be empty for regular  
\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/primitives/ShortsMethodsForWeb.java  
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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/Stats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/html/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/package-info.java
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/StatsAccumulator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/SipHashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeCapture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAddable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteSource.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/ChecksumHashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Invokable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/RateLimiter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/StandardSystemProperty.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractByteHasher.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/AbstractInvocationHandler.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/BaseEncoding.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeToInstanceMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/PairedStats.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAddables.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAddables.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CartesianList.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/FileWriteMode.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/ClassPath.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/xml/package-info.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableRangeMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManager.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashing.java  
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ClosingFuture.java
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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smlasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Hashing.java
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jar/com/google/common/reflect/Reflection.java

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/\*\*

\* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain  
\* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available  
\* under GWT but with a slightly different signature.

\*

\* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize  
\* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT  
\* compiler to autostrip the normal server method in order to expose the special, inherited GWT  
\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Partially.java

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- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TopKSelector.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableGraph.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/SuccessorsFunction.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableNetwork.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableNetwork.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Graphs.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/InsecureRecursiveDeleteException.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Graph.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/RecursiveDeleteOption.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/PredecessorsFunction.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableGraph.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Network.java

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- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAdder.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAdder.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/cache/Striped64.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/hash/Striped64.java  
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jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/CharMatcher.java
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jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/UnicodeEscaper.java
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jar/com/google/common/primitives/Bytes.java  
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jar/com/google/common/io/MultiReader.java  
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jar/com/google/common/base/Stopwatch.java  
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jar/com/google/common/base/Converter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/primitives/Longs.java  
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jar/com/google/common/primitives/Ints.java  
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jar/com/google/common/base/internal/Finalizer.java  
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jar/com/google/common/net/InetAddresses.java  
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jar/com/google/common/escape/Escaper.java  
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jar/com/google/thirdparty/publicsuffix/TrieParser.java

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jar/com/google/common/collect/MinMaxPriorityQueue.java

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jar/com/google/common/collect/AbstractSequentialIterator.java

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jar/com/google/common/collect/ForwardingListMultimap.java

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jar/com/google/common/collect/RowSortedTable.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedSetMultimap.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableListIterator.java  
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- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedBytes.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/HostSpecifier.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/SignedBytes.java
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- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/ReferenceEntry.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapMakerInternalMap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeResolver.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/Platform.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapMaker.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheBuilder.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Cut.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteArrayDataInput.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SettableFuture.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Callables.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Service.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractIdleService.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/util/concurrent/ForwardingFluentFuture.java  
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jar/com/google/common/base/Platform.java  
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jar/com/google/common/io/ByteArrayDataOutput.java  
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jar/com/google/common/html/HtmlEscapers.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/escape/ArrayBasedEscaperMap.java  
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jar/com/google/common/io/LineProcessor.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/xml/XmlEscapers.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/RegularImmutableTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/annotations/GwtCompatible.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/io/ByteProcessor.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/escape/ArrayBasedCharEscaper.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/net/InternetDomainName.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AbstractService.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/Splitter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/LocalCache.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/escape/Escapers.java

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\*/

/\*\*

\* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.

\*

\* @throws UnsupportedOperationException always

\* @deprecated <b>Pass a key of type {@code Comparable} to use {@link

\* ImmutableSortedMap#of(Comparable, Object)}.</b>

\*/

Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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\*/

/\*\*

\* Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular

\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/FloatsMethodsForWeb.java

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- \*/

Found in path(s):

- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ComputationException.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DiscreteDomain.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableTable.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableAsList.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ArrayTable.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingTable.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TableCollectors.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableEnumSet.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableSortedSet.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableList.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableTable.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSetMultimap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ComparisonChain.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableList.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractIndexedListIterator.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EmptyImmutableSetMultimap.java

# 1.33 netty-transport 4.1.78.Final

## 1.33.1 Available under license :

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 */
```

Found in path(s):

```
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/ServerChannelRecvByteBufferAllocator.java
```

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 */
```

Found in path(s):

```
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/socket/nio/NioChannelOption.java
```

```
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
```

jar/io/netty/channel/SimpleUserEventChannelHandler.java

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 */
```

Found in path(s):

```
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/ChannelPipeline.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/ChannelFutureListener.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/group/ChannelGroupFuture.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/DefaultFileRegion.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/oio/package-info.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/DefaultChannelConfig.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/EventLoopException.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/FileRegion.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/group/ChannelGroupFutureListener.java
```

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/VoidChannelPromise.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/group/package-info.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/nio/NioDatagramChannel.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/bootstrap/ServerBootstrap.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/Channel.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelPromiseNotifier.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelException.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/nio/NioSocketChannel.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/DatagramChannelConfig.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/bootstrap/AbstractBootstrap.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelInboundHandler.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/ServerSocketChannelConfig.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/nio/NioEventLoop.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelConfig.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelDuplexHandler.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/nio/NioEventLoopGroup.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/embedded/EmbeddedEventLoop.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/ServerSocketChannel.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/nio/package-info.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelPromise.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/oio/AbstractOioChannel.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/CombinedChannelDuplexHandler.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelOption.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/nio/NioTask.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/local/LocalChannelRegistry.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ThreadPerChannelEventLoop.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/package-info.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ServerChannel.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelHandlerContext.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/oio/AbstractOioByteChannel.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/DatagramChannel.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/bootstrap/Bootstrap.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannel.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelPromiseAggregator.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/local/LocalAddress.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/DefaultChannelPromise.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/package-info.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannel.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelMetadata.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/oio/package-info.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/EventLoop.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/local/LocalChannel.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/local/LocalServerChannel.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/local/package-info.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/DefaultChannelPipeline.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/FailedChannelFuture.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/SucceededChannelFuture.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/AbstractServerChannel.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/embedded/package-info.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/nio/package-info.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/DefaultEventLoop.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelFuture.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/DatagramPacket.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/MultithreadEventLoopGroup.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/group/CombinedIterator.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/nio/AbstractNioByteChannel.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/SocketChannel.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/nio/AbstractNioChannel.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/InternetProtocolFamily.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/SingleThreadEventLoop.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/nio/AbstractNioMessageChannel.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelOutboundHandler.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/AbstractChannelHandlerContext.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/oio/OioEventLoopGroup.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/RecvByteBufAllocator.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/DefaultEventLoopGroup.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelInitializer.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/local/LocalEventLoopGroup.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/SocketChannelConfig.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/EventLoopGroup.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/bootstrap/package-info.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/group/DefaultChannelGroupFuture.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelPipelineException.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/CompleteChannelFuture.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelInboundHandlerAdapter.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/AbstractChannel.java

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- \* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
- \* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/PendingBytesTracker.java
- \* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
- \* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/internal/package-info.java
- \* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/bootstrap/FailedChannel.java
- \* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
- \* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
- \* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
- \* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/internal/ChannelUtils.java
- \* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java

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* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/socket/DuplexChannelConfig.java
* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/StacklessClosedChannelException.java
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* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/socket/nio/SelectorProviderUtil.java
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\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ReflectiveChannelFactory.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/PendingWriteQueue.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannelId.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/AbstractEventLoop.java

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\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/WriteBufferWaterMark.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/group/VoidChannelGroupFuture.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/PreferHeapByteBufAllocator.java

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\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/ChannelOutboundInvoker.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/bootstrap/AbstractBootstrapConfig.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/DuplexChannel.java  
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\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/SelectStrategyFactory.java  
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\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/pool/ChannelPoolMap.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/pool/ChannelPool.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/pool/ChannelHealthChecker.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

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\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/pool/FixedChannelPool.java  
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jar/io/netty/channel/pool/AbstractChannelPoolMap.java  
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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline }.
 *
 * <h3>Sub-types</h3>
 *
 * <p>
 * { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 *
 *
 * { @link ChannelInboundHandler } to handle inbound I/O events, and
 * { @link ChannelOutboundHandler } to handle outbound I/O operations.
 *
 *
 * </p>
 *
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 *
 *
 * { @link ChannelInboundHandlerAdapter } to handle inbound I/O events,
 * { @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and
 * { @link ChannelDuplexHandler } to handle both inbound and outbound events
 *
 *
 * </p>
 *
 * <p>
```

\* For more information, please refer to the documentation of each subtype.

\* </p>

\*

\* <h3>The context object</h3>

\* <p>

\* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }

\* object. A { @link ChannelHandler } is supposed to interact with the

\* { @link ChannelPipeline } it belongs to via a context object. Using the

\* context object, the { @link ChannelHandler } can pass events upstream or

\* downstream, modify the pipeline dynamically, or store the information

\* (using { @link AttributeKey }s) which is specific to the handler.

\*

\* <h3>State management</h3>

\*

\* A { @link ChannelHandler } often needs to store some stateful information.

\* The simplest and recommended approach is to use member variables:

\* <pre>

\* public interface Message {

\* // your methods here

\* }

\*

\* public class DataServerHandler extends { @link SimpleChannelInboundHandler } &lt;Message &gt; {

\*

\* <b>private boolean loggedIn;</b>

\*

\* { @code @Override }

\* public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {

\* if (message instanceof LoginMessage) {

\* authenticate((LoginMessage) message);

\* <b>loggedIn = true;</b>

\* } else (message instanceof GetDataMessage) {

\* if (<b>loggedIn</b>) {

\* ctx.writeAndFlush(fetchSecret((GetDataMessage) message));

\* } else {

\* fail();

\* }

\* }

\* }

\* ...

\* }

\* </pre>

\* Because the handler instance has a state variable which is dedicated to

\* one connection, you have to create a new handler instance for each new

\* channel to avoid a race condition where a unauthenticated client can get

\* the confidential information:

\* <pre>

\* // Create a new handler instance per channel.

\* // See { @link ChannelInitializer#initChannel(Channel)}.

```
* public class DataServerInitializer extends { @link ChannelInitializer}<>{ @link Channel}> {
* { @code @Override}
* public void initChannel({ @link Channel} channel) {
* channel.pipeline().addLast("handler", new DataServerHandler());
* }
* }
*
* </pre>
```

\* <h4>Using { @link AttributeKey}s</h4>

\* Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances.

\* In such a case, you can use { @link AttributeKey}s which is provided by

\* { @link ChannelHandlerContext}:

```
* <pre>
```

```
* public interface Message {
```

```
* // your methods here
```

```
* }
```

```
*
```

```
* { @code @Sharable}
```

```
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}<>Message> {
```

```
* private final { @link AttributeKey}<>{ @link Boolean}> auth =
```

```
* { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
```

```
*
```

```
* { @code @Override}
```

```
* public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
```

```
* { @link Attribute}<>{ @link Boolean}> attr = ctx.attr(auth);
```

```
* if (message instanceof LoginMessage) {
```

```
* authenticate((LoginMessage) o);
```

```
* attr.set(true);
```

```
* } else (message instanceof GetDataMessage) {
```

```
* if (Boolean.TRUE.equals(attr.get())) {
```

```
* ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
```

```
* } else {
```

```
* fail();
```

```
* }
```

```
* }
```

```
* }
```

```
* ...
```

```
* }
```

```
* </pre>
```

\* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the

\* same handler instance to different pipelines:

```
* <pre>
```

```
* public class DataServerInitializer extends { @link ChannelInitializer}<>{ @link Channel}> {
```

```
*
```

```
* private static final DataServerHandler SHARED = new DataServerHandler();
```

```

*
* { @code @Override }
* public void initChannel({ @link Channel } channel) {
* channel.pipeline().addLast("handler", SHARED);
* }
* }
* </pre>
*
*
* <h4>The { @code @Sharable } annotation</h4>
* <p>
* In the example above which used an { @link AttributeKey },
* you might have noticed the { @code @Sharable } annotation.
* <p>
* If a { @link ChannelHandler } is annotated with the { @code @Sharable }
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline }s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* the JCIP annotations.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler }, and
* { @link ChannelPipeline } to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
* /

```

Found in path(s):

```

* /opt/cola/permits/1350828746_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-
jar/io/netty/channel/ChannelHandler.java

```

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jar/io/netty/channel/CoalescingBufferQueue.java

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jar/io/netty/channel/EventLoopTaskQueueFactory.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/ExtendedClosedChannelException.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/ChannelHandlerMask.java

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\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/AbstractEventLoopGroup.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/AddressedEnvelope.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/group/ChannelGroup.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java

\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-

jar/io/netty/channel/ChannelProgressivePromise.java  
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jar/io/netty/channel/ChannelHandlerAdapter.java  
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jar/io/netty/channel/ChannelProgressiveFutureListener.java  
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jar/io/netty/channel/ChannelId.java  
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jar/io/netty/channel/DefaultMessageSizeEstimator.java  
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jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/SimpleChannelInboundHandler.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/ConnectTimeoutException.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/bootstrap/ChannelFactory.java  
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jar/io/netty/channel/ChannelProgressiveFuture.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/group/ChannelMatcher.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/DefaultChannelId.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/DefaultChannelProgressivePromise.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/ChannelOutboundBuffer.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/MessageSizeEstimator.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/group/ChannelGroupException.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/DefaultAddressedEnvelope.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/group/DefaultChannelGroup.java  
\* /opt/cola/permits/1350828746\_1656063997.4516613/0/netty-transport-4-1-78-final-sources-1-  
jar/io/netty/channel/group/ChannelMatchers.java

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## 1.44 xerces-j 2.7.1



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# 1.45 epp.presentationcore 1.0.0

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53. textmate/sql.tmbundle (<https://github.com/textmate/sql.tmbundle>)
54. textmate/yaml.tmbundle (<https://github.com/textmate/yaml.tmbundle>)
55. TypeScript-TmLanguage version 0.1.8 (<https://github.com/Microsoft/TypeScript-TmLanguage>)
56. vscode-swift version 0.0.1 (<https://github.com/owensd/vscode-swift>)

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* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
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\* Contributors:

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- \* /opt/cola/permits/1157317056\_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/Basic.java
- \* /opt/cola/permits/1157317056\_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/PersistenceUnits.java
- \* /opt/cola/permits/1157317056\_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/EntityNotFoundException.java
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\* /opt/cola/permits/1157317056\_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/PostUpdate.java  
\* /opt/cola/permits/1157317056\_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/metamodel/MappedSuperclassType.java  
\* /opt/cola/permits/1157317056\_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/criteria/PluralJoin.java  
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\* /opt/cola/permits/1157317056\_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/LockTimeoutException.java  
\* /opt/cola/permits/1157317056\_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/NonUniqueResultException.java  
\* /opt/cola/permits/1157317056\_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/spi/package-info.java  
\* /opt/cola/permits/1157317056\_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/NoResultException.java  
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- \* /opt/cola/permits/1157317056\_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/MapKeyJoinColumn.java
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## 1.48 bouncycastle 1.0.5

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- $Id: ow2-bundles-externals-bouncycastle.bnd 2159 2007-12-11 13:34:15Z fornacif $

```

Export-Package org.bouncycastle.\*

Private-Package !\*

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```
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# 1.50 node-lru-cache 5.1.1

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The project maintains the following source code repositories:

\* <https://github.com/eclipse-ee4j/jaf>

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# 1.53 jetty-xml 9.4.26.v20200117

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\* org.eclipse.jetty.orbit:javafx.security.auth.message

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\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec  
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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.54 @webassemblyjs/leb128 1.9.0

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## 1.55 ajv-errors 1.0.1

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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 */
/**/ Generated By:JavaCC: Do not edit this line. SPathParserTokenManager.java */
```

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```
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jar/org/apache/taglibs/standard/extra/spath/SPathParserTokenManager.java
```

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jar/javax/servlet/jsp/jstl/core/IteratedValueExpression.java
* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-
jar/javax/servlet/jsp/jstl/core/IndexedValueExpression.java
```

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**/*
* JSTLXPathFactory.java
*
* Created on March 4, 2005, 3:27 PM
*/
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\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/common/fmt/FormatNumberSupport.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/lang/jstl/NullLiteral.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/common/fmt/MessageSupport.java  
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- \* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-jar/javax/servlet/jsp/jstl/tlv/ScriptFreeTLV.java
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- \* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/tag/common/xml/JSTLXPathImpl.java
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- \* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/tag/rt/xml/TransformTag.java
- \* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-jar/javax/servlet/jsp/jstl/core/LoopTag.java
- \* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/tag/rt/sql/ParamTag.java
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- \* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/tag/common/core/NullAttributeException.java

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\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/lang/jstl/Constants.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-jar/javax/servlet/jsp/jstl/sql/ResultSupport.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/tag/el/xml/ParamTag.java  
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\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/common/sql/QueryTagSupport.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/lang/jstl/test/ParserTest.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/common/sql/ResultImpl.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/lang/jstl/test/Bean2.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/el/sql/DateParamTag.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/extra/spath/Step.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/rt/xml/ExprTag.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/lang/jstl/Evaluator.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/el/core/RedirectTag.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/rt/core/ForTokensTag.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/rt/fmt/ParamTag.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/common/core/RedirectSupport.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/lang/jstl/LessThanOperator.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/lang/jstl/test/beans/PublicBean1.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/lang/jstl/test/beans/PublicInterface2.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/lang/jstl/test/beans/PrivateBean2b.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/common/fmt/SetTimeZoneSupport.java  
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\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-

jar/org/apache/taglibs/standard/tag/common/xml/WhenTag.java  
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jar/org/apache/taglibs/standard/lang/jstl/EnumeratedMap.java  
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jar/org/apache/taglibs/standard/lang/jstl/PlusOperator.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/common/core/UrlSupport.java  
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jar/org/apache/taglibs/standard/lang/jstl/DivideOperator.java  
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jar/org/apache/taglibs/standard/tag/common/sql/UpdateTagSupport.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/el/core/SetTag.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/rt/core/SetTag.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/rt/fmt/ParseDateTag.java  
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jar/org/apache/taglibs/standard/lang/jstl/BeanInfoIndexedProperty.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/lang/jstl/test/beans/PrivateBean2c.java  
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jar/org/apache/taglibs/standard/resources/Resources.java  
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jar/org/apache/taglibs/standard/lang/jstl/BeanInfoManager.java  
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jar/org/apache/taglibs/standard/lang/jstl/test/EvaluationTest.java  
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jar/org/apache/taglibs/standard/lang/jstl/IntegerDivideOperator.java  
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jar/org/apache/taglibs/standard/lang/jstl/GreaterThanOrEqualsOperator.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/el/fmt/SetBundleTag.java  
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jar/org/apache/taglibs/standard/tag/common/xml/JSTLXPathNamespaceContext.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/javax/servlet/jsp/jstl/core/LoopTagStatus.java  
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jar/org/apache/taglibs/standard/tag/el/fmt/MessageTag.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/lang/jstl/MultiplyOperator.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/el/sql/TransactionTag.java  
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jar/javax/servlet/jsp/jstl/sql/SQLExecutionTag.java  
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jar/org/apache/taglibs/standard/lang/jstl/test/beans/PrivateBean1a.java  
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jar/org/apache/taglibs/standard/tlv/JstlCoreTLV.java  
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jar/org/apache/taglibs/standard/tag/rt/fmt/SetTimeZoneTag.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/lang/jstl/BooleanLiteral.java  
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jar/org/apache/taglibs/standard/tag/rt/fmt/FormatNumberTag.java  
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jar/org/apache/taglibs/standard/tlv/JstlFmtTLV.java  
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jar/org/apache/taglibs/standard/tag/common/core/ParamSupport.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/lang/jstl/EqualityOperator.java  
\* /opt/cola/permits/1177945123\_1654022942.3547654/0/jstl-1-2-sources-1-  
jar/org/apache/taglibs/standard/tag/common/core/WhenTagSupport.java

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**/
* JSTLXPathConstants.java
*
* Created on March 4, 2005, 4:24 PM
```

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## 1.59 cnakazawa-watch 1.0.4

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## 1.66 jax-ws 2.2.7

## 1.67 phone-home-client 5.0.0



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## 1.68 taglibs-standard 1.2.5

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## 1.70 el-api 6.0.29

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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```

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## 1.73 jaxb2-reflection 2.2.3-1

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# 1.75 shellwords 0.1.1

## 1.76 commons-digester 1.7

### 1.76.1 Available under license :

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Found in path(s):

```
*/opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/plugins/Declaration.java
```

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```
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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltResource.java  
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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/substitution/VariableAttributes.java  
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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-



jar/org/apache/commons/digester/Rule.java

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/* $Id: ExtendedBaseRules.java 179716 2005-06-03 04:06:00Z skitching $
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jar/org/apache/commons/digester/ExtendedBaseRules.java
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```
/* $Id: SetPropertyRule.java 155412 2005-02-26 12:58:36Z dirkv $
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jar/org/apache/commons/digester/SetPropertiesRule.java
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/* $Id: Rules.java 155412 2005-02-26 12:58:36Z dirkv $
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*/opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/Rules.java
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```
/* $Id: PluginInvalidInputException.java 155412 2005-02-26 12:58:36Z dirkv $
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*/opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
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```

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/* $Id: Substitutor.java 155412 2005-02-26 12:58:36Z dirkv $
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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/Substitutor.java  
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```
/* $Id: FinderFromDfltClass.java 155412 2005-02-26 12:58:36Z dirkv $
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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltClass.java  
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/* $Id: PluginContext.java 179714 2005-06-03 03:53:39Z skitching $
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jar/org/apache/commons/digester/plugins/PluginContext.java  
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jar/org/apache/commons/digester/ObjectCreationFactory.java  
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\*/opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/strategies/FinderFromFile.java

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jar/org/apache/commons/digester/xmlrules/DigesterLoadingException.java
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Found in path(s):

\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-  
jar/org/apache/commons/digester/ObjectCreateRule.java  
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```
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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-  
jar/org/apache/commons/digester/plugins/LogUtils.java  
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```
/* $Id: CallMethodRule.java 179710 2005-06-03 03:19:51Z skitching $
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jar/org/apache/commons/digester/CallMethodRule.java  
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/\* \$Id: PathCallParamRule.java 155412 2005-02-26 12:58:36Z dirkv \$

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/\* \$Id: PluginManager.java 155412 2005-02-26 12:58:36Z dirkv \$

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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/xmlrules/FromXmlRuleSet.java

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jar/org/apache/commons/digester/SetPropertyRule.java  
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jar/org/apache/commons/digester/plugins/strategies/LoaderFromStream.java  
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jar/org/apache/commons/digester/FactoryCreateRule.java

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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-  
jar/org/apache/commons/digester/substitution/VariableExpander.java

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/\* \$Id: FinderFromClass.java 155412 2005-02-26 12:58:36Z dirkv \$

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/* $Id: RuleFinder.java 155412 2005-02-26 12:58:36Z dirkv $
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jar/org/apache/commons/digester/parser/XercesParser.java
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jar/org/apache/commons/digester/substitution/VariableSubstitutor.java  
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jar/org/apache/commons/digester/AbstractRulesImpl.java  
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jar/org/apache/commons/digester/RuleSet.java  
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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/SetNestedPropertiesRule.java

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/\* \$Id: FinderSetProperties.java 179714 2005-06-03 03:53:39Z skitching \$

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Found in path(s):

\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/strategies/FinderSetProperties.java

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/\* \$Id: CircularIncludeException.java 155412 2005-02-26 12:58:36Z dirkv \$

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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/xmlrules/CircularIncludeException.java

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```
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```

Found in path(s):

```
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/plugins/RulesFactory.java
```

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Found in path(s):

```
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/substitution/package.html
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/package.html
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/xmlrules/package.html
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-jar/overview.html
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/plugins/package.html
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
```



jar/org/apache/commons/digester/parser/package.html

\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-

jar/org/apache/commons/digester/plugins/strategies/package.html

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/\* \$Id: FinderFromResource.java 155412 2005-02-26 12:58:36Z dirkv \$

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jar/org/apache/commons/digester/plugins/strategies/FinderFromResource.java

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/\* \$Id: DigesterRulesSource.java 155412 2005-02-26 12:58:36Z dirkv \$

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jar/org/apache/commons/digester/xmlrules/DigesterRulesSource.java

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```
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/SetRootRule.java
```

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Found in path(s):

```
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/RulesBase.java
```

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```
/* $Id: RegexMatcher.java 155412 2005-02-26 12:58:36Z dirkv $
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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-  
jar/org/apache/commons/digester/RegexMatcher.java

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/\* \$Id: PluginConfigurationException.java 155412 2005-02-26 12:58:36Z dirkv \$

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jar/org/apache/commons/digester/plugins/PluginConfigurationException.java

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/\* \$Id: MultiVariableExpander.java 155412 2005-02-26 12:58:36Z dirkv \$

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jar/org/apache/commons/digester/substitution/MultiVariableExpander.java  
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Found in path(s):

\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-  
jar/org/apache/commons/digester/plugins/PluginException.java  
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```
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/\* \$Id: LoaderFromClass.java 155412 2005-02-26 12:58:36Z dirkv \$

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```
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Found in path(s):

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```
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```
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Found in path(s):

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jar/org/apache/commons/digester/parser/GenericParser.java
```

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Martin Richards  
23 February 2007

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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 <PropertyGroup>
 <OutputType>Exe</OutputType>
 <ApplicationManifest>App.manifest</ApplicationManifest>
 <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
 <IlrtTestKind>BuildOnly</IlrtTestKind>
 <!-- Test unsupported outside of windows -->
 <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
 <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
 <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
 <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
 </PropertyGroup>
 <ItemGroup>
 <Compile Include="Program.cs" />
 <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
 <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
 </ItemGroup>
</Project>
```



```
<Compile Include="../../ServerContracts/ServerGuids.cs" />
</ItemGroup>
<ItemGroup>
 <ProjectReference Include="../../NativeServer/CMakeLists.txt" />
 <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>
```

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## 1.87 normalize-package-data 2.5.0

# 1.88 angular-vs-repeat 1.1.7

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# 1.89 requirejs 2.1.11

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/\*\*\*\*\*\*

A JavaScript tokenizer / parser / beautifier / compressor.

This version is suitable for Node.js. With minimal changes (the exports stuff) it should work on any JS platform.

This file contains the tokenizer/parser. It is a port to JavaScript

of parse-js [1], a JavaScript parser library written in Common Lisp by Marijn Haverbeke. Thank you Marijn!

[1] <http://marijn.haverbeke.nl/parse-js/>

Exported functions:

- tokenizer(code) -- returns a function. Call the returned function to fetch the next token.
- parse(code) -- returns an AST of the given JavaScript code.

----- (C) -----

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## 1.90 postcss-discard-empty 1.0.5

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/SetUIDListener.java
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/SetUIDServer.java
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/SetUID.java
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/Group.java
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/RLimit.java
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/Passwd.java
```

# 1.97 character-entities-legacy 1.1.4

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builds/unix/pkg.m4

#

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#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h



```
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
EOF
```

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zip/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
*/opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/HikariPoolMXBean.java
*/opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/HikariConfigMXBean.java
```

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zip/com/zaxxer/hikari/HikariConfig.java
- \* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/util/FastList.java
- \* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/pool/ProxyLeakTask.java
- \* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/pool/ProxyResultSet.java
- \* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/pool/ProxyConnection.java
- \* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/util/DriverDataSource.java
- \* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/pool/ProxyFactory.java
- \* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/util/ConcurrentBag.java
- \* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/util/SuspendResumeLock.java
- \* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/util/JavassistProxyFactory.java

## 1.102 detect-indent 4.0.0

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# 1.104 desandro-matches-selector 1.0.3

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```
/**
 * matchesSelector v1.0.3
 * matchesSelector(element, '.selector')
 * MIT license
 */
```

Found in path(s):

```
* /opt/cola/permits/1287134707_1647238671.01/0/desandro-matches-selector-1-0-3-tgz/package/matches-selector.js
```

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```
matchesSelector helper
```

```
[matches` ^ matchesSelector`](https://developer.mozilla.org/en-US/docs/Web/API/Element/matches) is pretty hot
```

:fire:, but has [vendor-prefix baggage](<http://caniuse.com/#feat=matchesselector>) :handbag: :pouch:. This helper function takes care of that, without augmenting `Element.prototype`.

```
``` js
matchesSelector( elem, selector );

matchesSelector( myElem, 'div.my-hawt-selector' );

// this DOES NOT polyfill myElem.matchesSelector
```
```

## ## Install

Download [matches-selector.js](<https://github.com/desandro/matches-selector/raw/master/matches-selector.js>)

Install with [Bower](<http://bower.io>): `bower install matches-selector`

[Install with npm](<https://www.npmjs.org/package/desandro-matches-selector>): `npm install desandro-matches-selector`

Install with [Component](<https://github.com/component/component>): `component install desandro/matches-selector`

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Found in path(s):

\* /opt/cola/permits/1287134707\_1647238671.01/0/desandro-matches-selector-1-0-3-tgz/package/README.md

# 1.105 apache-http-client 4.5.13

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# 1.108 stream-browserify 2.0.2

# 1.109 jest-from-facebook v26.6.2

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```

Found in path(s):

```
* /opt/cola/permits/1225964312_1636479343.9/0/integration-bdio-22-1-5-sources-
jar/com/synopsys/integration/bdio/SimpleBdioFactory.java
* /opt/cola/permits/1225964312_1636479343.9/0/integration-bdio-22-1-5-sources-
jar/com/synopsys/integration/bdio/model/Forge.java
* /opt/cola/permits/1225964312_1636479343.9/0/integration-bdio-22-1-5-sources-
jar/com/synopsys/integration/bdio/model/dependencyid/NameVersionDependencyId.java
* /opt/cola/permits/1225964312_1636479343.9/0/integration-bdio-22-1-5-sources-
jar/com/synopsys/integration/bdio/model/BdioId.java
* /opt/cola/permits/1225964312_1636479343.9/0/integration-bdio-22-1-5-sources-
jar/com/synopsys/integration/bdio/graph/MutableDependencyGraph.java
* /opt/cola/permits/1225964312_1636479343.9/0/integration-bdio-22-1-5-sources-
jar/com/synopsys/integration/bdio/model/BdioCreationInfo.java
* /opt/cola/permits/1225964312_1636479343.9/0/integration-bdio-22-1-5-sources-
jar/com/synopsys/integration/bdio/graph/MutableMapDependencyGraph.java
* /opt/cola/permits/1225964312_1636479343.9/0/integration-bdio-22-1-5-sources-
jar/com/synopsys/integration/bdio/model/BdioComponent.java
* /opt/cola/permits/1225964312_1636479343.9/0/integration-bdio-22-1-5-sources-
jar/com/synopsys/integration/bdio/graph/builder/LazyBuilderMissingExternalIdHandler.java
* /opt/cola/permits/1225964312_1636479343.9/0/integration-bdio-22-1-5-sources-
jar/com/synopsys/integration/bdio/model/BdioExternalIdentifier.java
* /opt/cola/permits/1225964312_1636479343.9/0/integration-bdio-22-1-5-sources-
jar/com/synopsys/integration/bdio/graph/builder/LazyExternalIdDependencyGraphBuilder.java
* /opt/cola/permits/1225964312_1636479343.9/0/integration-bdio-22-1-5-sources-
jar/com/synopsys/integration/bdio/BdioNodeFactory.java
```

\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/SimpleBdioDocument.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/BdioReader.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/dependencyid/NameDependencyId.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/BdioNode.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/dependencyid/StringDependencyId.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/graph/builder/MissingExternalIdException.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/BdioPropertyHelper.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/BdioTransformer.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/dependency/DependencyFactory.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/externalid/ExternalId.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/BdioBillOfMaterials.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/graph/DependencyGraphCombiner.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/dependencyid/DependencyId.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/BdioRelationship.java  
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\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/graph/DependencyGraph.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/externalid/ExternalIdFactory.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/graph/DependencyGraphTransformer.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/dependency/Dependency.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/BdioIdAdapter.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/BdioIdEscaper.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/BdioWriter.java  
\* /opt/cola/permits/1225964312\_1636479343.9/0/integration-bdio-22-1-5-sources-jar/com/synopsys/integration/bdio/model/BdioProject.java

# 1.111 lodash.memoize 4.1.2

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## 1.113 define-lazy-prop 2.0.0

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\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/annotations/GwtCompatible.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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jar/jersey/repackaged/com/google/common/cache/AbstractCache.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/reflect/TypeParameter.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
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\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedExecutionException.java  
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\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/TypeToken.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/escape/CharEscaperBuilder.java  
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\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/escape/CharEscaper.java  
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\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/eventbus/SubscriberExceptionHandler.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/MultimapBuilder.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-

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\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/io/CharSequenceReader.java  
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jar/jersey/repackaged/com/google/common/collect/SortedMultiset.java  
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jar/jersey/repackaged/com/google/common/collect/ImmutableRangeMap.java

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jar/jersey/repackaged/com/google/common/collect/CartesianList.java

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jar/jersey/repackaged/com/google/common/collect/FilteredKeyMultimap.java

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jar/jersey/repackaged/com/google/common/hash/SipHashFunction.java

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jar/jersey/repackaged/com/google/common/hash/ChecksumHashFunction.java

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jar/jersey/repackaged/com/google/common/io/BaseEncoding.java

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jar/jersey/repackaged/com/google/common/base/Verify.java  
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jar/jersey/repackaged/com/google/common/collect/FilteredMultimapValues.java  
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jar/jersey/repackaged/com/google/common/base/VerifyException.java  
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jar/jersey/repackaged/com/google/common/collect/Queues.java  
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jar/jersey/repackaged/com/google/common/hash/MessageDigestHashFunction.java  
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jar/jersey/repackaged/com/google/common/collect/BoundType.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMultiset.java  
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jar/jersey/repackaged/com/google/common/collect/TreeRangeSet.java  
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jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedMultiset.java  
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jar/jersey/repackaged/com/google/common/hash/Hasher.java  
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jar/jersey/repackaged/com/google/common/hash/PrimitiveSink.java  
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\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/AbstractFuture.java

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\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableSortedSet.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/SerializingExecutor.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/TreeBasedTable.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Ints.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/StandardRowSortedTable.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Shorts.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableMapKeySet.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/UnmodifiableIterator.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Booleans.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableBiMap.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableListMultimap.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/PeekingIterator.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Table.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Collections2.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/FluentIterable.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Platform.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/ListenableFutureTask.java

\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Floats.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableMultiset.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedSet.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableMapEntrySet.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/thirdparty/publicsuffix/TrieParser.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/CollectPreconditions.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/Stopwatch.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/escape/Escaper.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/HashBasedTable.java  
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\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/cache/LongAdder.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java  
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\* As of 2010/06/11, this method is identical to the (package private) hash

\* method in OpenJDK 7's java.util.HashMap class.

\*/

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jar/jersey/repackaged/com/google/common/collect/AbstractRangeSet.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/collect/Count.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/collect/GeneralRange.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/collect/SortedIterables.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedMultiset.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/primitives/UnsignedInteger.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/primitives/UnsignedLongs.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/collect/ForwardingSortedMultiset.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultiset.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/collect/SortedIterable.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
jar/jersey/repackaged/com/google/common/collect/RangeSet.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
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\* This method was rewritten in Java from an intermediate step of the Murmur hash function in



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* following header:
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedAsList.java
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\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/MoreObjects.java  
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\* This following method is a modified version of one found in

\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>

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jar/jersey/repackaged/com/google/common/cache/Weigher.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-  
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\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/FilteredKeyListMultimap.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedSet.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ForwardingNavigableMap.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/escape/package-info.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/cache/LongAddables.java  
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\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/TypeCapture.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/Parameter.java  
\* /opt/cola/permits/1136113812\_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/RangeMap.java  
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## 1.121 jmock-legacy 2.5.1

## 1.122 remark 4.0.0

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-----  
Eclipse

The following artifacts are EPL.  
\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.  
\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.  
\* org.eclipse.jetty.orbit:javafx.mail.glassfish

-----  
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api  
\* javax.annotation:javax.annotation-api  
\* javax.transaction:javax.transaction-api  
\* javax.websocket:javax.websocket-api

-----  
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN

module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----  
OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----  
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.124 fastest-levenshtein 1.0.12

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Found in path(s):

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/AtomicQueueFactory.java

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/ConcurrentCircularArrayQueue.java

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java

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\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/package-info.java

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/spec/Ordering.java

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\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-

jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/RangeUtil.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/PaddedAtomicLong.java  
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\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/QueueFactory.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/LinkedQueueNode.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java  
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\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscLinkedQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscChunkedArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SpSCArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/UnsafeRefArrayAccess.java  
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\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SpmcArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java  
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- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscCompoundQueue.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/maps/NonBlockingIdentityHashMap.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
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- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscGrowableArrayQueue.java
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- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/UnsafeAccess.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscUnboundedArrayQueue.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SupportsIterator.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscArrayQueue.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SpsscChunkedArrayQueue.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/UnsafeLongArrayAccess.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/BaseSpsscLinkedAtomicArrayQueue.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SpsscUnboundedArrayQueue.java
- \* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/InternalAPI.java

\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/maps/NonBlockingHashMap.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SpSCGrowableArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/PortableJvmInfo.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpMCAtomicArrayQueue.java  
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\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/Pow2.java

# 1.126 babel-plugin-transform-react-jsx v6.24.1

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.173.1898&rep=rep1&type=pdf>

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15. definitelytyped (<https://github.com/DefinitelyTyped/DefinitelyTyped>)
16. demyte/language-cshtml (<https://github.com/demyte/language-cshtml>)
17. dotnet/csharp-tmLanguage version 0.1.0 (<https://github.com/dotnet/csharp-tmLanguage>)
18. freebroccolo/atom-language-swift (<https://github.com/freebroccolo/atom-language-swift>)

19. HTML 5.1 W3C Working Draft version 08 October 2015 (<http://www.w3.org/TR/2015/WD-html51-20151008/>)
20. Ionic documentation version 1.2.4 (<https://github.com/ionic-team/ionic-site>)
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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/solaris/kstat/SystemPages.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/windows/registry/ProcessPerformanceData.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/freebsd/Who.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/windows/wmi/Win32ProcessCached.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/linux/LinuxOSProcess.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/unix/aix/AixOSProcess.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/windows/wmi/Win32PhysicalMemory.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/windows/wmi/Win32VideoController.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/windows/wmi/Win32LogicalDiskToPartition.java

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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/util/platform/linux/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/jna/platform/linux/package-info.java  
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jar/oshi/util/platform/windows/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/package-  
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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/linux/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/windows/package-info.java  
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jar/oshi/hardware/platform/unix/solaris/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/unix/freebsd/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/jna/platform/windows/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/software/os/linux/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-

jar/oshi/software/common/package-info.java

\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-

jar/oshi/software/os/unix/freebsd/package-info.java

\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/mac/package-info.java

\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-

jar/oshi/util/platform/unix/solaris/package-info.java

\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-

jar/oshi/hardware/common/package-info.java

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jar/oshi/util/platform/unix/freebsd/package-info.java

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jar/oshi/software/os/mac/MacOperatingSystem.java

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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/GraphicsCard.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/mac/MacOSThread.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/unix/aix/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/aix/AixGraphicsCard.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/annotation/concurrent/ThreadSafe.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/aix/AixUsbDevice.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/linux/proc/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/freebsd/disk/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/linux/proc/UpTime.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/tuples/Quintet.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/common/AbstractOSThread.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/common/AbstractOSFileStore.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/solaris/disk/Prtvtoc.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/solaris/kstat/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/windows/registry/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/linux/LinuxNetworkIF.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/aix/AixPowerSource.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/freebsd/FreeBsdHWDiskStore.java  
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- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/mac/package-info.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/mac/MacGraphicsCard.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/aix/Lspv.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/annotation/concurrent/package-info.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/mac/disk/package-info.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/common/AbstractInternetProtocolStats.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/aix/AixComputerSystem.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/windows/WindowsOSFileStore.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/tuples/Pair.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/solaris/package-info.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/windows/WindowsOSThread.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/linux/LinuxOSThread.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/freebsd/disk/GeomDiskList.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/platform/unix/freebsd/ProcstatUtil.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/freebsd/package-info.java
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- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/annotation/concurrent/Immutable.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/linux/package-info.java
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- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/mac/MacOSFileStore.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/linux/Sysfs.java
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- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/solaris/SolarisGraphicsCard.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/unix/solaris/SolarisOSFileStore.java
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- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/annotation/concurrent/NotThreadSafe.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/unix/aix/AixOSFileStore.java
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- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/unix/solaris/SolarisInternetProtocolStats.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/linux/proc/CpuInfo.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/aix/AixBaseboard.java

\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/windows/perfmon/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/linux/proc/DiskStats.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/aix/AixSensors.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/aix/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/solaris/disk/Iostat.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/tuples/Quartet.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractHWDiskStore.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/solaris/disk/Lshal.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractGraphicsCard.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/tuples/Triplet.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractNetworkIF.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/mac/ThreadInfo.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/aix/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/common/AbstractOSProcess.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/tuples/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/linux/LinuxInternetProtocolStats.java  
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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/unix/openbsd/OpenBsdOSThread.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/windows/EnumWindows.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/openbsd/disk/Disklabel.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/openbsd/OpenBsdUsbDevice.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/jna/platform/windows/NtDll.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/openbsd/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/Xwininfo.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/LogicalVolumeGroup.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/UnixBaseboard.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/openbsd/OpenBsdSensors.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/UnixDisplay.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/openbsd/OpenBsdFirmware.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/openbsd/OpenBsdComputerSystem.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/unix/openbsd/OpenBsdOperatingSystem.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/unix/openbsd/OpenBsdInternetProtocolStats.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/driver/unix/openbsd/disk/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractLogicalVolumeGroup.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-

jar/oshi/software/os/unix/openbsd/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/software/os/unix/openbsd/OpenBsdOSFileStore.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/unix/openbsd/OpenBsdPowerSource.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/unix/openbsd/OpenBsdVirtualMemory.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/software/os/unix/openbsd/OpenBsdFileSystem.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/unix/openbsd/OpenBsdHardwareAbstractionLayer.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/software/os/unix/openbsd/OpenBsdNetworkParams.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/mac/MacLogicalVolumeGroup.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/unix/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/unix/openbsd/OpenBsdHWDiskStore.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/unix/BsdNetworkIF.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/util/platform/unix/openbsd/package-info.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/unix/openbsd/OpenBsdGraphicsCard.java  
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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractVirtualMemory.java

\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/solaris/SolarisVirtualMemory.java

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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/freebsd/FreeBsdSoundCard.java

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jar/oshi/hardware/platform/windows/WindowsSoundCard.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/linux/LinuxSoundCard.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/util/platform/windows/PerfDataUtil.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/common/AbstractSoundCard.java  
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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/platform/windows/PerfCounterQueryHandler.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/platform/windows/PerfCounterQuery.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/Memoizer.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/Constants.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/mac/MacVirtualMemory.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/platform/windows/PerfCounterWildcardQuery.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/jna/platform/linux/LinuxLibc.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/windows/WindowsVirtualMemory.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/GlobalConfig.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/freebsd/FreeBsdVirtualMemory.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/platform/windows/WmiQueryHandler.java  
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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/jna/platform/mac/SystemConfiguration.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/util/platform/unix/openbsd/FstatUtil.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/linux/LinuxLogicalVolumeGroup.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/jna/platform/unix/FreeBsdLibc.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/driver/unix/aix/PsInfo.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/windows/WindowsLogicalVolumeGroup.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/util/platform/unix/openbsd/OpenBsdSysctlUtil.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/software/os/unix/openbsd/OpenBsdOSProcess.java  
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jar/oshi/driver/windows/wmi/MSFTStorage.java  
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jar/oshi/jna/platform/unix/SolarisLibc.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/unix/openbsd/OpenBsdCentralProcessor.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/jna/platform/mac/CoreGraphics.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/driver/windows/DeviceTree.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/jna/platform/unix/OpenBsdLibc.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/driver/mac/WindowInfo.java

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* /opt/cola/permits/1368298633_1658301195.3066697/0/oshi-core-6-1-6-sources-
jar/oshi/hardware/platform/unix/openbsd/OpenBsdGlobalMemory.java
* /opt/cola/permits/1368298633_1658301195.3066697/0/oshi-core-6-1-6-sources-
jar/oshi/driver/unix/solaris/PsInfo.java
* /opt/cola/permits/1368298633_1658301195.3066697/0/oshi-core-6-1-6-sources-
jar/oshi/software/os/OSDesktopWindow.java
* /opt/cola/permits/1368298633_1658301195.3066697/0/oshi-core-6-1-6-sources-
jar/oshi/util/platform/mac/CFUtil.java
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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/linux/LinuxFirmware.java  
 \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractHardwareAbstractionLayer.java  
 \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/HWDiskStore.java  
 \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/FileSystem.java  
 \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/unix/freebsd/FreeBsdOperatingSystem.java  
 \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/EdidUtil.java  
 \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/mac/MacComputerSystem.java  
 \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractCentralProcessor.java  
 \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractComputerSystem.java  
 \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/platform/mac/SysctlUtil.java  
 \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/solaris/SolarisFirmware.java  
 \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/windows/WindowsFirmware.java  
 \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/solaris/SolarisSensors.java  
 \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/linux/LinuxCentralProcessor.java

\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/HWPartition.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/CentralProcessor.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/OSFileStore.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/mac/MacBaseboard.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/freebsd/FreeBsdCentralProcessor.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/freebsd/FreeBsdGlobalMemory.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/FileUtil.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/Sensors.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractPowerSource.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/mac/MacPowerSource.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/windows/WindowsCentralProcessor.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/jna/platform/mac/SystemB.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/windows/WindowsBaseboard.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/windows/WindowsFileSystem.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/OSProcess.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/OperatingSystem.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/mac/MacCentralProcessor.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/Firmware.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/ParseUtil.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/platform/unix/solaris/KstatUtil.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/windows/WindowsGlobalMemory.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/unix/solaris/SolarisFileSystem.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/mac/MacDisplay.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractDisplay.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractFirmware.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/freebsd/FreeBsdUsbDevice.java

\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/freebsd/FreeBsdHardwareAbstractionLayer.java  
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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/mac/MacUsbDevice.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/common/AbstractOperatingSystem.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/HardwareAbstractionLayer.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/unix/freebsd/FreeBsdFileSystem.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/PowerSource.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/linux/LinuxUsbDevice.java  
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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/mac/MacSensors.java  
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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/linux/LinuxGlobalMemory.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/mac/MacHardwareAbstractionLayer.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/ComputerSystem.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/PlatformEnum.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/solaris/SolarisGlobalMemory.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/SystemInfo.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/linux/LinuxComputerSystem.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/linux/LinuxSensors.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractGlobalMemory.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/windows/WindowsDisplay.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/linux/LinuxHardwareAbstractionLayer.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/windows/WindowsSensors.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/linux/LinuxFileSystem.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/windows/WindowsOSSystemInfo.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/mac/MacFirmware.java

- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/windows/WindowsHardwareAbstractionLayer.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/Util.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/windows/WindowsPowerSource.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractUsbDevice.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/ExecutingCommand.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/mac/MacFileSystem.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/linux/LinuxPowerSource.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/FormatUtil.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/solaris/SolarisPowerSource.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/solaris/SolarisComputerSystem.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/linux/LinuxBaseboard.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/solaris/SolarisUsbDevice.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/GlobalMemory.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractSensors.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/util/platform/mac/SmcUtil.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/freebsd/FreeBsdFirmware.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/freebsd/FreeBsdComputerSystem.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/windows/WindowsComputerSystem.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/jna/platform/windows/PowrProf.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/Display.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/common/AbstractBaseboard.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/freebsd/FreeBsdSensors.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/os/unix/solaris/SolarisOperatingSystem.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/platform/unix/solaris/SolarisCentralProcessor.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/software/common/AbstractFileSystem.java
- \* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-

jar/oshi/hardware/platform/unix/freebsd/FreeBsdPowerSource.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/unix/solaris/SolarisHardwareAbstractionLayer.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/mac/MacGlobalMemory.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/software/os/linux/LinuxOperatingSystem.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-jar/oshi/hardware/Baseboard.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/hardware/platform/windows/WindowsUsbDevice.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/util/platform/unix/freebsd/BsdSysctlUtil.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/util/platform/windows/WmiUtil.java

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\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/software/os/NetworkParams.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/jna/platform/unix/CLibrary.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-  
jar/oshi/software/os/linux/LinuxNetworkParams.java  
\* /opt/cola/permits/1368298633\_1658301195.3066697/0/oshi-core-6-1-6-sources-



```
jar/oshi/software/common/AbstractNetworkParams.java
* /opt/cola/permits/1368298633_1658301195.3066697/0/oshi-core-6-1-6-sources-
jar/oshi/software/os/mac/MacNetworkParams.java
* /opt/cola/permits/1368298633_1658301195.3066697/0/oshi-core-6-1-6-sources-
jar/oshi/software/os/windows/WindowsNetworkParams.java
* /opt/cola/permits/1368298633_1658301195.3066697/0/oshi-core-6-1-6-sources-
jar/oshi/software/os/unix/solaris/SolarisNetworkParams.java
* /opt/cola/permits/1368298633_1658301195.3066697/0/oshi-core-6-1-6-sources-
jar/oshi/software/os/unix/freebsd/FreeBsdNetworkParams.java
```

## 1.159 parse-glob 3.0.4

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## 1.160 types-babel-traverse 7.18.3

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## 1.161 picocontainer 2.15

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jar/org/picocontainer/composers/RegexComposer.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/monitors/ComposingMonitor.java
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- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/Behavior.java

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*****/

```

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/AnnotatedFieldInjector.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/NamedFieldInjection.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/Injectors.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Synchronizing.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/ComponentFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/adapters/AbstractAdapter.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/BehaviorFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/PicoVerificationException.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/annotations/Inject.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/parameters/BasicComponentParameter.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/annotations/Cache.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/containers/TransientPicoContainer.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/AnnotatedMethodInjector.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/adapters/InstanceAdapter.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/parameters/ComponentParameter.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/InjectionFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/TypedFieldInjection.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/containers/ImmutablePicoContainer.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/SetterInjector.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/PropertyApplying.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/lifecycle/NullLifecycleStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Synchronized.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/monitors/LifecycleComponentMonitor.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Locked.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/HiddenImplementation.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Behaviors.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/annotations/Nullable.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/DefaultPicoContainer.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/AnnotatedFieldInjection.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/AdaptingBehavior.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/PicoContainer.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/containers/CommandLinePicoContainer.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/AbstractInjector.java

```

* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/PicoException.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/behaviors/Locking.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/injectors/NamedMethodInjector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/behaviors/PropertyApplicator.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/Characteristics.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/PicoClassNotFoundException.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/parameters/CollectionComponentParameter.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/behaviors/Automating.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/NameBinding.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/behaviors/ImplementationHiding.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/PicoBuilder.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/injectors/TypedFieldInjector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/injectors/NamedFieldInjector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/behaviors/Automated.java

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```

* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/behaviors/ThreadCaching.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/injectors/MethodInjection.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/PicoCompositionException.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-

```

jar/org/picocontainer/injectors/ConstructorInjector.java  
\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-  
jar/org/picocontainer/injectors/AdaptingInjection.java  
\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-  
jar/org/picocontainer/injectors/ConstructorInjection.java  
\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-  
jar/org/picocontainer/injectors/SetterInjection.java  
\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-  
jar/org/picocontainer/behaviors/Caching.java  
\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-  
jar/org/picocontainer/behaviors/ThreadCached.java  
\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-  
jar/org/picocontainer/injectors/AnnotatedMethodInjection.java  
\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-  
jar/org/picocontainer/behaviors/OptInCaching.java  
\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-  
jar/org/picocontainer/behaviors/Cached.java  
\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-  
jar/org/picocontainer/behaviors/Storing.java  
\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-  
jar/org/picocontainer/behaviors/Guarding.java  
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\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-  
jar/org/picocontainer/monitors/NullComponentMonitor.java  
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- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/monitors/WriterComponentMonitor.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/monitors/ComponentMonitorHelper.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/monitors/ConsoleComponentMonitor.java

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Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/Disposable.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/Startable.java

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- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/AbstractBehaviorFactory.java

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- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/containers/PropertiesPicoContainer.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/containers/CommandLineArgumentsPicoContainer.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/ForgetfulConstructorInjection.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Intercepted.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/SingleMemberInjector.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/containers/SystemPropertiesPicoContainer.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Intercepting.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/ParameterNameBinding.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/MethodInjector.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/parameters/AbstractParameter.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/PicoLifecycleException.java

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- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/PrimitiveMemberChecker.java

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\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/monitors/AbstractComponentMonitor.java

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\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Decorated.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/references/ThreadLocalReference.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/CompositeInjection.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/Injector.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/ComponentMonitorStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Stored.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/references/SimpleReference.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/ComponentLifecycle.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/ProviderAdapter.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/Reinjector.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Guarded.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/InjectInto.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/MultiInjection.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/Provider.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/Injector.java

\* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/MultiInjector.java

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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/injectors/FactoryInjector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/references/ThreadLocalMapObjectReference.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/injectors/CompositeInjector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/security/CustomPermissionsURLClassLoader.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/ObjectReference.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/injectors/Reinjection.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/BindKey.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/MutablePicoContainer.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/containers/CompositePicoContainer.java
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jar/org/picocontainer/Parameter.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/parameters/ConstantParameter.java
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```
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* Copyright (C) NanoContainer Organization. All rights reserved. *
* ----- *
* The software in this package is published under the terms of the BSD *
* style license a copy of which has been included with this distribution in *
* the LICENSE.txt file. *
* *
* Original code by Joerg Schaibe *
*****/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/behaviors/Decorating.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/behaviors/FieldDecorating.java
```

No license file was found, but licenses were detected in source scan.

```
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* ----- *
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* the LICENSE.txt file. *
* *
* Original code by the committers *
*****/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/containers/AbstractDelegatingMutablePicoContainer.java
```

No license file was found, but licenses were detected in source scan.

```
/*-----*/
```

```
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* -----
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*****/
```

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/classname/ClassLoadingPicoContainer.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/parameters/DefaultConstructorParameter.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/classname/ClassName.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/classname/DefaultClassLoadingPicoContainer.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/parameters/NullParameter.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/classname/ClassPathElement.java

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```
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*****/
```

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/visitors/VerifyingVisitor.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/visitors/TraversalCheckingVisitor.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/Converters.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/lifecycle/DefaultLifecycleState.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/PicoVisitor.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/LifecycleStrategy.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/converters/Converter.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/lifecycle/ReflectionLifecycleStrategy.java
- \* /opt/ws\_local/PERMITS\_SQL/1013480939\_1590521618.42/0/picocontainer-2-15-sources-1-

```

jar/org/picocontainer/visitors/AbstractPicoVisitor.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/lifecycle/StartableLifecycleStrategy.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/lifecycle/CompositeLifecycleStrategy.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/visitors/MethodCallingVisitor.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/lifecycle/AbstractMonitoringLifecycleStrategy.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/lifecycle/LifecycleState.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/ComponentAdapter.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/lifecycle/ReflectionLifecycleException.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/lifecycle/JavaEE5LifecycleStrategy.java
No license file was found, but licenses were detected in source scan.

```

```

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* ----- *
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* the LICENSE.txt file. *
* *
* Original code by Jon Tirsen *
*****/

```

```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-
jar/org/picocontainer/behaviors/AbstractBehavior.java

```

# 1.162 find-root 1.1.0

## 1.162.1 Available under license :

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## 1.163 generex 1.0.2

### 1.163.1 Available under license :

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>com.github.mifmif</groupId>
 <artifactId>generex</artifactId>
 <version>1.0.2</version>
 <name>Generex</name>
 <url>https://github.com/mifmif/Generex/tree/master</url>
 <description>Generex A Java Library for regex to Strings generation</description>
 <packaging>jar</packaging>
 <licenses>
 <license>
 <name>The Apache Software License, Version 2.0</name>
 <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
 <distribution>repo</distribution>
 </license>
 </licenses>
 <developers>
 <developer>
 <id>mifmif</id>
 <name>MIFRAH Youssef</name>
 <email>mifmif.com@gmail.com</email>
 </developer>
 <developer>
 <id>mkolisnyk</id>
 <name>mkolisnyk</name>
 <email>kolesnik.nickolay@gmail.com</email>
 </developer>
 </developers>

 <parent>
 <groupId>org.sonatype.oss</groupId>
 <artifactId>oss-parent</artifactId>
 <version>7</version>
 </parent>
```

```

<properties>
 <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
 <maven.pmd.excludes>**/generated-sources/**</maven.pmd.excludes>
</properties>
<scm>
 <connection>scm:git:git@github.com:mifmif/Generex.git</connection>
 <developerConnection>scm:git:git@github.com:mifmif/Generex.git</developerConnection>
 <url>https://github.com/mifmif/Generex.git</url>
</scm>
<ciManagement>
 <url>https://travis-ci.org/mifmif/Generex/builds</url>
 <system>Travis</system>
 <notifiers>
 <notifier>
 <address>mifmif.com@gmail.com</address>
 <type>mail</type>
 </notifier>
 <notifier>
 <address>kolesnik.nickolay@gmail.com</address>
 <type>mail</type>
 </notifier>
 </notifiers>
</ciManagement>

<distributionManagement>
 <snapshotRepository>
 <id>ossrh</id>
 <url>https://oss.sonatype.org/content/repositories/snapshots</url>
 </snapshotRepository>
 <repository>
 <id>ossrh</id>
 <url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
 </repository>
</distributionManagement>

<build>
 <sourceDirectory>src/main/java</sourceDirectory>
 <testSourceDirectory>src/test/java</testSourceDirectory>
 <resources>
 <resource>
 <directory>src</directory>
 <excludes>
 <exclude>**/*.java</exclude>
 </excludes>
 </resource>
 <resource>
 <directory>target/dependency</directory>

```

```

<excludes>
 <exclude>**/*.java</exclude>
</excludes>
</resource>
<resource>
 <directory>src/main/resources</directory>
 <includes>
 <include>**/*.properties</include>
 </includes>
</resource>
</resources>
<plugins>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-install-plugin</artifactId>
 <version>2.5.2</version>
 <configuration>
 <file>target/${project.artifactId}-${project.version}.jar</file>
 <groupId>${project.groupId}</groupId>
 <artifactId>${project.artifactId}</artifactId>
 <version>${project.version}</version>
 <packaging>maven-plugin</packaging>
 </configuration>
 </plugin>

 <plugin>
 <artifactId>maven-compiler-plugin</artifactId>
 <version>3.5.1</version>
 <configuration>
 <source>1.5</source>
 <target>1.5</target>
 </configuration>
 </plugin>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-jar-plugin</artifactId>
 <version>3.0.2</version>
 <configuration>
 <excludes>
 <exclude>*</exclude>
 <exclude>com/thoughtworks/**/*</exclude>
 <exclude>freemarker/**/*</exclude>
 <exclude>ftl/**/*</exclude>
 <exclude>i18n/**/*</exclude>
 <exclude>style/**/*</exclude>
 <exclude>junit/**/*</exclude>
 <exclude>licenses/**/*</exclude>
 <exclude>META-INF/maven/**/*</exclude>

```



```

<exclude>org/codehaus/**/*</exclude>
<exclude>org/hamcrest/**/*</exclude>
<exclude>org/jbehave/**/*</exclude>
<exclude>org/junit/**/*</exclude>
<exclude>org/testng/**/*</exclude>
<exclude>org/xmlpull/**/*</exclude>
<exclude>stories/**/*</exclude>
<exclude>style/**/*</exclude>
<exclude>tests/**/*</exclude>
</excludes>
<archive>
<manifest>
<addClasspath>>false</addClasspath>
<addDefaultImplementationEntries>>true</addDefaultImplementationEntries>
<addDefaultSpecificationEntries>>true</addDefaultSpecificationEntries>
<addExtensions>>false</addExtensions>
<classpathLayoutType>simple</classpathLayoutType>
</manifest>
</archive>
</configuration>
</plugin>
<plugin>
<artifactId>maven-assembly-plugin</artifactId>
<version>2.6</version>
<configuration>
<descriptors>
<descriptor>./sources.xml</descriptor>
</descriptors>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-dependency-plugin</artifactId>
<version>2.10</version>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-javadoc-plugin</artifactId>
<version>2.10.3</version>
<configuration>
<show>private</show>
<nohelp>>false</nohelp>
<failOnError>>false</failOnError>
<sourcepath>src/main/java</sourcepath>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>

```

```
<artifactId>maven-release-plugin</artifactId>
<configuration>
 <tagNameFormat>v@{project.version}</tagNameFormat>
 <preparationGoals>package install:install-file</preparationGoals>
 <scmCommentPrefix>#3</scmCommentPrefix>
</configuration>
</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-deploy-plugin</artifactId>
 <version>2.8.2</version>
 <configuration>
 <skip>true</skip>
 </configuration>
</plugin>
```

```
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-source-plugin</artifactId>
 <version>3.0.1</version>
 <executions>
 <execution>
 <goals>
 <goal>jar-no-fork</goal>
 </goals>
 </execution>
 </executions>
</plugin>
```

```
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-javadoc-plugin</artifactId>
 <executions>
 <execution>
 <id>attach-javadocs</id>
 <goals>
 <goal>jar</goal>
 </goals>
 </execution>
 </executions>
</plugin>
```

```
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-gpg-plugin</artifactId>
```

```
<executions>
 <execution>
 <id>sign-artifacts</id>
 <phase>deploy</phase>
 <goals>
 <goal>sign</goal>
 </goals>
 </execution>
</executions>
```

```
</plugin>
```

```
<plugin>
 <groupId>org.sonatype.plugins</groupId>
 <artifactId>nexus-staging-maven-plugin</artifactId>
 <version>1.6.3</version>
 <executions>
 <execution>
 <id>default-deploy</id>
 <phase>deploy</phase>
 <goals>
 <goal>deploy</goal>
 </goals>
 </execution>
 </executions>
 <extensions>true</extensions>
 <configuration>
 <serverId>ossrh</serverId>
 <nexusUrl>https://oss.sonatype.org/</nexusUrl>
 </configuration>
```

```
</plugin>
```

```
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-pmd-plugin</artifactId>
 <version>3.6</version>
 <configuration>
 <failOnViolation>true</failOnViolation>
 <excludeRoots>
 <excludeRoot>target/generated-sources/plugin</excludeRoot>
 </excludeRoots>
 <excludes>
 <exclude>**/HelpMojo.java</exclude>
 </excludes>
 </configuration>
 <executions>
 <execution>
 <goals>
```

```

 <goal>check</goal>
 <goal>cpd-check</goal>
 </goals>
</configuration>
<failOnViolation>true</failOnViolation>
<excludes>
 <exclude>**/HelpMojo.java</exclude>
</excludes>
</configuration>
</execution>
</executions>
</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-checkstyle-plugin</artifactId>
 <version>2.10</version>
 <configuration>
 <excludes>**/test/java/**/*.*.java</excludes>
 <configLocation>./sun_checks.xml</configLocation>
 <suppressionsLocation>./checkstyle-suppressions.xml</suppressionsLocation>
 <failOnViolation>true</failOnViolation>
 </configuration>
 <executions>
 <execution>
 <goals>
 <goal>check</goal>
 </goals>
 </execution>
 </executions>
</plugin>
<plugin>
 <groupId>org.codehaus.mojo</groupId>
 <artifactId>cobertura-maven-plugin</artifactId>
 <version>2.6</version>
 <configuration>
 <check>
 <haltOnFailure>>false</haltOnFailure>
 <totalBranchRate>80</totalBranchRate>
 <totalLineRate>80</totalLineRate>
 <packageLineRate>80</packageLineRate>
 <packageBranchRate>80</packageBranchRate>
 </check>
 <instrumentation>
 <excludes>
 <exclude>**/HelpMojo.class</exclude>
 </excludes>
 </instrumentation>
 </configuration>

```

```

<executions>
 <execution>
 <id>verification</id>
 <phase>verify</phase>
 <goals>
 <goal>check</goal>
 <goal>cobertura</goal>
 </goals>
 </execution>
</executions>
</plugin>
<plugin>
 <groupId>org.codehaus.mojo</groupId>
 <artifactId>javancss-maven-plugin</artifactId>
 <version>2.0</version>
 <configuration>
 <encoding>${project.build.sourceEncoding}</encoding>
 <ccnLimit>15</ccnLimit>
 <ncssLimit>100</ncssLimit>
 <failOnViolation>true</failOnViolation>
 <excludes>
 <exclude>*/tests/**/*.*</exclude>
 </excludes>
 </configuration>
 <executions>
 <execution>
 <goals>
 <goal>check</goal>
 </goals>
 </execution>
 </executions>
</plugin>
<plugin>
 <groupId>org.codehaus.mojo</groupId>
 <artifactId>findbugs-maven-plugin</artifactId>
 <version>3.0.1</version>
 <configuration>
 <encoding>${project.build.sourceEncoding}</encoding>
 <failOnError>true</failOnError>
 <excludeFilterFile>findBugsExclude.xml</excludeFilterFile>
 </configuration>
 <executions>
 <execution>
 <goals>
 <goal>check</goal>
 </goals>
 </execution>
 </executions>

```

```

</plugin>
<plugin>
 <groupId>org.codehaus.mojo</groupId>
 <artifactId>jdepend-maven-plugin</artifactId>
 <version>2.0</version>
</plugin>
</plugins>
</build>
<dependencies>
<dependency>
 <groupId>dk.brics.automaton</groupId>
 <artifactId>automaton</artifactId>
 <version>1.11-8</version>
</dependency>
<dependency>
 <groupId>junit</groupId>
 <artifactId>junit</artifactId>
 <version>4.12</version>
 <scope>test</scope>
</dependency>
<dependency>
 <groupId>org.hamcrest</groupId>
 <artifactId>hamcrest-junit</artifactId>
 <version>2.0.0.0</version>
 <scope>test</scope>
</dependency>
</dependencies>
</project>

```

Found in path(s):

\* /opt/cola/permits/1000610466\_1606952086.17/0/generex-1-0-2-sources-1-jar/META-INF/maven/com.github.mifmif/generex/pom.xml

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/\*

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\*

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- \*/

Found in path(s):

- \* /opt/cola/permits/1000610466\_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/GenerexIterator.java
- \* /opt/cola/permits/1000610466\_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/Generex.java
- \* /opt/cola/permits/1000610466\_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/Node.java
- \* /opt/cola/permits/1000610466\_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/util/Iterator.java
- \* /opt/cola/permits/1000610466\_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/Main.java
- \* /opt/cola/permits/1000610466\_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/util/Iterable.java

## 1.164 sqlite 3.32.3

### 1.164.1 Available under license :

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May you share freely, never taking more than you give.

## 1.165 metrics-jetty 4.1.31

### 1.165.1 Available under license :

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Manifest-Version: 1.0  
Automatic-Module-Name: com.codahale.metrics.jetty9  
Build-Jdk-Spec: 1.8  
Bundle-Description: A set of extensions for Jetty 9.3 and higher which provide instrumentation of thread pools, connector metrics, and application latency and utilization.  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Integration for Jetty 9.3 and higher  
Bundle-SymbolicName: io.dropwizard.metrics.jetty9  
Bundle-Version: 4.1.31  
Created-By: Apache Maven Bundle Plugin 5.1.4  
Export-Package: com.codahale.metrics.jetty9;uses:="com.codahale.metric

s,javax.servlet,javax.servlet.http,org.eclipse.jetty.io,org.eclipse.j  
etty.server,org.eclipse.jetty.server.handler,org.eclipse.jetty.util.a  
nnotation,org.eclipse.jetty.util.component,org.eclipse.jetty.util.thr  
ead";version="4.1.31"  
Implementation-Title: Metrics Integration for Jetty 9.3 and higher  
Implementation-Version: 4.1.31  
Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.ht  
tp;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.1,5)",org  
.eclipse.jetty.http;version="[9.4,10)",org.eclipse.jetty.io;version="  
[9.4,10)",org.eclipse.jetty.server;version="[9.4,10)",org.eclipse.jet  
ty.server.handler;version="[9.4,10)",org.eclipse.jetty.util.annotatio  
n;version="[9.4,10)",org.eclipse.jetty.util.component;version="[9.4,1  
0)",org.eclipse.jetty.util.thread;version="[9.4,10)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1317858390\_1651151753.72/0/metrics-jetty9-4-1-31-jar/META-INF/MANIFEST.MF

# 1.166 babel-helper-get-function-arity v6.24.1

## 1.166.1 Available under license :

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## 1.174 constants-browserify 1.0.0

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# 1.176 validate-npm-package-license 3.0.4

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validate-npm-package-license

=====

Give me a string and I'll tell you if it's a valid npm package license string.

```
```javascript
var valid = require('validate-npm-package-license');
```
```

SPDX license identifiers are valid license strings:

```
```javascript

var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```
```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
```
```

```
]
}
);
```
```

SPDX expressions are valid, too ...

```
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```
```

... except if they contain `LicenseRef`:

```
```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
 'license should be ' +
 'a valid SPDX license expression (without "LicenseRef"), ' +
 "'UNLICENSED', or ' +
 "'SEE LICENSE IN <filename>",
]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```
```javascript
assert.deepEqual(
 valid('SEE LICENSE IN LICENSE.txt'),
 {

```

```

 validForNewPackages: true,
 validForOldPackages: true,
 inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
 validForNewPackages: true,
 validForOldPackages: true,
 inFile: 'license.md'
 }
);
```

```

If there aren't any licensing terms, use `UNLICENSED`:

```

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

```

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1.177 @babel/core 7.20.5

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1.178 node-shell-quote 1.7.2

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1.179 txw2 2.3.1

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org.hibernate.c3p0.internal.StrategyRegistrationProviderImpl
```

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```
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* /opt/cola/permits/1445244928_1666097774.4321663/0/hibernate-c3p0-5-6-12-final-sources-jar/OSGI-INF/blueprint/blueprint.xml

1.181 servlet-api 3.0.1

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1.185 methods 1.1.2

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1.186 domexception 1.0.1

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1.187 triple-beam 1.3.0

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1.189 shebang-command 2.0.0

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1.190 libsigar 1.6.2

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1.191 is-docker 2.2.1

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1.192 throttleit 1.0.0

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1.193 lodash.sortby 4.7.0

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1.194 jackson-databind 2.13.4

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1.195 esprima 4.0.1

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1.196 sigar 1.6.4

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1.198 flush-write-stream 1.1.1

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1.199 babel-loader 8.3.0

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1.200 event-emitter 0.3.5

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1.201 path-browserify 0.0.1

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1.202 openjdk 1.8.0u352

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2000-01-14

1.203 jackson-core 2.10.3

1.203.1 Available under license :

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1.204 guava 2.25.1

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 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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 */
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jar/jersey/repackaged/com/google/common/util/concurrent/MoreExecutors.java
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/SipHashFunction.java

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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
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jar/jersey/repackaged/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/base/MoreObjects.java
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/Striped.java
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/MultimapBuilder.java

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- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/PairwiseEquivalence.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/RemovalNotification.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/FutureFallback.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/ForwardingLoadingCache.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Optional.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Ticker.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/Uninterruptibles.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Present.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedExecutionException.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/RemovalCause.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/AtomicLongMap.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/math/IntMath.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/math/BigIntegerMath.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/CycleDetectingLockFactory.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/CacheBuilderSpec.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/AbstractCompositeHashFunction.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/RemovalListener.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/math/DoubleUtils.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ExecutionError.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/Cache.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/AbstractNonStreamingHashFunction.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-

jar/jersey/repackaged/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/reflect/Types.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/base/Absent.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/cache/package-info.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/math/package-info.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/net/MediaType.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingCheckedFuture.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/WellBehavedMap.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-

jar/jersey/repackaged/com/google/common/math/DoubleMath.java
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jar/jersey/repackaged/com/google/common/base/Enums.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/math/LongMath.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/WrappingExecutorService.java
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- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/MapMakerInternalMap.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/Cut.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/SparseImmutableTable.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/DenseImmutableTable.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/MapMaker.java

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- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ComputingConcurrentHashMap.java

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- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ThreadFactoryBuilder.java
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- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/primitives/package-info.java
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- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/Monitor.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Equivalence.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractSequentialIterator.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableCollection.java
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- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingListMultimap.java
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- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/io/ByteSource.java
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/xml/package-info.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/AsyncSettableFuture.java

* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMap.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/io/Closer.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/io/CharSink.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/escape/package-info.java
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/Striped64.java

* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/LongAdder.java

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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Utf8.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/VerifyException.java

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jar/jersey/repackaged/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/escape/CharEscaperBuilder.java
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/Funnels.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/Hashing.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMultiset.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/AbstractStreamingHashFunction.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/Queues.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/Hasher.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-

jar/jersey/repackaged/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
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jar/jersey/repackaged/com/google/common/hash/HashCode.java
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jar/jersey/repackaged/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/Funnel.java
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```
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/EnumMultiset.java
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- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingCollection.java
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- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractMapEntry.java
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- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/eventbus/Subscribe.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/MapConstraints.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/eventbus/AsyncEventBus.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/eventbus/EventBus.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ExecutionList.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/EnumHashBiMap.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ReverseOrdering.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/SetMultimap.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractMultiset.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/RegularImmutableSet.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSet.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingSet.java
- * /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-

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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/NullsLastOrdering.java
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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/SortedMultisets.java

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* /opt/cola/permits/1534838207_1673960453.8325953/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/RegularImmutableMap.java

1.205 process-nextick-args v2.0.1

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1.206 copy-concurrently 1.0.5

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1.207 jest-fake-timers 25.5.0

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1.208 stream-http 2.8.3

1.209 is-arguments 1.1.1

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1.210 lodash._getnative 3.9.1

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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078202442_1597270786.77/0/fis-components-lodash-getnative-3-9-1-0-g99a6587-tar-gz/fis-components-lodash._getnative-20042e8/index.js
```

1.211 joda-time 2.8.1

1.211.1 Available under license :

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1.212 mchange-commons-java 0.2.19

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1.213 system-security-permissions 4.5.0

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version 1.2.11, January 15th, 2017

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By Sean Eron Anderson
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1.214 util-deprecate 1.0.2

1.215 enquirer 2.3.6

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1.216 jest-runtime 25.5.4

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1.217 jackson-xc 2.12.2

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1.220 postcss-color-mod-function 3.0.3

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1.221 jaxb-runtime 2.3.1

1.222 es6-promise v4.2.8

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1.223 springframework-beans 3.2.15

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1.224 jetty-security 9.4.26.v20200117

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.225 bail 1.0.5

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1.226 activation-api 1.1

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* <https://github.com/eclipse-ee4j/jaf>

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JUnit (4.12)

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1.227 jetty 9.4.48.v20220622

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.228 execall 1.0.0

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1.229 cacache 12.0.4

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1.230 lodash._bindcallback 3.0.1

1.230.1 Available under license :

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* Build: `lodash modern modularize exports="npm" -o .`
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*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078202342_1597270964.99/0/fis-components-lodash-bindcallback-3-0-1-0-ga3774f0-tar-gz/fis-components-lodash._bindcallback-ef3539e/index.js
```

1.231 jackson 2.13.2

1.231.1 Available under license :

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1.232 node-dashdash 1.14.1

1.233 character-entities 1.2.4

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1.234 visual-studio-runtime 14.10.25028.0

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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6. atom/language-objective-c (<https://github.com/atom/language-objective-c>)
7. atom/language-sass version 0.52.0 (<https://github.com/atom/language-sass>)
8. atom/language-xml (<https://github.com/atom/language-xml>)
9. Benvie/JavaScriptNext.tmLanguage (<https://github.com/Benvie/JavaScriptNext.tmLanguage>)
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12. Colorsublime-Themes version 0.1.0 (<https://github.com/Colorsublime/Colorsublime-Themes>)
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14. davidrios/jade-tmbundle (<https://github.com/davidrios/jade-tmbundle>)
15. definitelytyped (<https://github.com/DefinitelyTyped/DefinitelyTyped>)
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19. HTML 5.1 W3C Working Draft version 08 October 2015 (<http://www.w3.org/TR/2015/WD-html51-20151008/>)
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* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.237 parseurl 1.3.3

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1.238 remark 8.0.0

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1.240 taglibs-standard-jstlel 1.2.5

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1.241 paranamer 2.5.1

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* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/CollectionUtils.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/beans/BeanMap.java

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- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/Mixin.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/beans/BeanCopier.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/AbstractClassLoader.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/EmitUtils.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/MethodInterceptorGenerator.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/ClassFilterTransformer.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/TypeUtils.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/Proxy.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/reflect/FastMethod.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/CodeEmitter.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/CallbackFilter.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/beans/BulkBeanEmitter.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/reflect/MethodDelegate.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/reflect/FastClassEmitter.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/FixedValueGenerator.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/AddStaticInitTransformer.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/LazyLoaderGenerator.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/CallbackGenerator.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/beans/ImmutableBean.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/AbstractClassGenerator.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/DefaultNamingPolicy.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/MixinEmitter.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/ReflectUtils.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/DebuggingClassWriter.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/beans/BeanMapEmitter.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/VisibilityPredicate.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/MethodProxy.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/KeyFactory.java
- * /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/DispatcherGenerator.java

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* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-
jar/net/sf/cglib/core/RemappingCodeVisitor.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-
jar/net/sf/cglib/core/CodeGenerationException.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-
jar/net/sf/cglib/transform/TransformingClassLoader.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-
jar/net/sf/cglib/proxy/ProxyRefDispatcher.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/ClassesKey.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/Local.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/Block.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/GeneratorStrategy.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/Dispatcher.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/Customizer.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/TinyBitSet.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-
jar/net/sf/cglib/transform/ClassTransformer.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-
jar/net/sf/cglib/transform/impl/UndeclaredThrowableStrategy.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-
jar/net/sf/cglib/transform/AbstractClassTransformer.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-
jar/net/sf/cglib/reflect/ConstructorDelegate.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-
jar/net/sf/cglib/transform/hook/AsmClassLoaderPreProcessor.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-
jar/net/sf/cglib/transform/ClassTransformerTee.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-
jar/net/sf/cglib/core/DefaultGeneratorStrategy.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-
jar/net/sf/cglib/transform/NullClassVisitor.java
```

* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/ProcessSwitchCallback.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/Converter.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/NamingPolicy.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/AddDelegateTransformer.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/NoOp.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/util/SorterTemplate.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/TransformingClassGenerator.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/beans/BeanGenerator.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/FieldProvider.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/ClassReaderGenerator.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/Constants.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/Signature.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/Callback.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/ClassGenerator.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/DuplicatesPredicate.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/InterceptFieldCallback.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/LazyLoader.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/util/ParallelSorter.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/util/ParallelSorterEmitter.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/FixedValue.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/MixinBeanEmitter.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/ClassVisitorTee.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/ClassEmitter.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/Transformer.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/AbstractProcessTask.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/InvocationHandler.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/InterceptFieldEnabled.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/CodeVisitorTee.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/ClassEmitterTransformer.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/hook/AbstractPreProcessor.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/AddPropertyTransformer.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/MethodFilter.java

* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/ProcessArrayCallback.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/reflect/FastConstructor.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/UndeclaredThrowableTransformer.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/beans/FixedKeySet.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/ObjectSwitchCallback.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/AccessFieldTransformer.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/FieldProviderTransformer.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/beans/BulkBeanException.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/ClassTransformerFactory.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/InterceptFieldFilter.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/ClassFilter.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/reflect/FastMember.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/util/StringSwitcher.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/MethodFilterTransformer.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/InterceptFieldTransformer.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/ClassNameReader.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/Predicate.java
* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-jar/net/sf/cglib/beans/BulkBean.java
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* /opt/cola/permits/1001069019_1651084472.75/0/cglib-2-1-3-sources-

1.243 form-data 2.3.3

1.244 kubernetes-model-node 4.13.3

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* /opt/cola/permits/1178944971_1625819438.07/0/kubernetes-model-node-4-13-3-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-node/pom.xml

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1.245 args4j 2.32

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1.246 asynckit 0.4.0

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1.247 oauth-httpclient4 20090913

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* /opt/cola/permits/1258040734_1643026703.61/0/oauth-httpclient4-20090913-sources-
jar/net/oauth/client/httpclient4/HttpClientPool.java
* /opt/cola/permits/1258040734_1643026703.61/0/oauth-httpclient4-20090913-sources-
jar/net/oauth/client/httpclient4/HttpClient4.java
* /opt/cola/permits/1258040734_1643026703.61/0/oauth-httpclient4-20090913-sources-
jar/net/oauth/client/httpclient4/HttpMethodResponse.java
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 - * /opt/cola/permits/1258040734_1643026703.61/0/oauth-httpclient4-20090913-sources-jar/net/oauth/client/httpclient4/OAuthSchemeFactory.java
 - * /opt/cola/permits/1258040734_1643026703.61/0/oauth-httpclient4-20090913-sources-jar/net/oauth/client/httpclient4/OAuthScheme.java
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- * /opt/cola/permits/1258040734_1643026703.61/0/oauth-httpclient4-20090913-sources-jar/net/oauth/client/httpclient4/PreemptiveAuthorizer.java

1.248 react 16.14.0

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1.249 archaius-core 0.7.1

1.250 strip-indent 2.0.0

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```
/*  
* Date Format 1.2.3  
* (c) 2007-2009 Steven Levithan <stevenlevithan.com>  
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*  
* Includes enhancements by Scott Trenda <scott.trenda.net>  
* and Kris Kowal <cixar.com/~kris.kowal/>  
*  
* Accepts a date, a mask, or a date and a mask.  
* Returns a formatted version of the given date.  
* The date defaults to the current date/time.  
* The mask defaults to dateFormat.masks.default.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1164532664_1678888244.1295848/0/dateformat-js-zip/dateformat.js
```

1.252 xalan 2.7.2

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Found in path(s):

*/opt/ws_local/PERMITS_SQL/1046144837_1589880123.03/0/junixsocket-native-common-2-3-2-sources-jar/org/newsclub/lib/junixsocket/common/NarMetadata.java

1.254 jackson-xc 1.9.2

1.254.1 Available under license :

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1.255 babel-plugin-istanbul 6.0.0

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1.256 miglayout 3.5.5

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1.257 detect-node 2.1.0

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1.258 websocket-driver-node 0.7.4

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1.259 isorelax 20090621

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* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-
jar/org/iso_relax/dispatcher/IslandSchemaReader.java

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* @(#) \$Id: IgnoredSchema.java,v 1.5 2003/05/30 23:46:32 kkawa Exp \$

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 * @(#)Id: AttributesDecl.java,v 1.3 2001/11/01 00:11:45 kkawa Exp $
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 * @(#)Id: SchemaProvider.java,v 1.6 2003/05/30 23:46:32 kkawa Exp $
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jar/org/iso_relax/dispatcher/SchemaProvider.java

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1.260 postcss-image-set-function 3.0.1

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Martin Richards

23 February 2007

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

By Sean Eron Anderson
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  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
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1.262 eslint-plugin-node 11.1.0

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1.263 okhttp 4.9.3

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1.264 aop-alliance 1.3.1.34-6.ph2

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1.272 winston-transport v4.4.0

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1.273 @babel/helper-function-name 7.15.4

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1.274 typedarray 0.0.6

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*/  
  
// Original can be found at:  
// https://bitbucket.org/lindenlab/llsd  
// Modifications by Joshua Bell inexorable@tash@gmail.com  
// https://github.com/inexorabletash/polyfill  
  
// ES3/ES5 implementation of the Khronos Typed Array Specification  
// Ref: http://www.khronos.org/registry/arraybuffer/specs/latest/  
// Date: 2011-02-01  
//  
// Variations:  
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
```

1.275 jpcap 1.16

1.276 postcss-reduce-initial 1.0.1

1.276.1 Available under license :

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1.277 simpleclient-servlet 0.15.0

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Manifest-Version: 1.0
Bnd-LastModified: 1644098926756
Build-Jdk: 11.0.13
Built-By: fabian
Bundle-Description: HTTP servlet exporter for the simpleclient.
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Servlet - Javax
Bundle-SymbolicName: io.prometheus.simpleclient_servlet
Bundle-Version: 0.15.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client;version="0.15.0";uses:="io.promethe
us.client.exemplars,io.prometheus.client.servlet.common.adapter,javax.s
ervlet,javax.servlet.http",io.prometheus.client.filter;uses:="javax.ser
vlet";version="0.15.0",io.prometheus.client.exporter;uses:="io.promethe
us.client,javax.servlet,javax.servlet.http";version="0.15.0"
Import-Package: io.prometheus.client.exemplars;version="[0.15,1)",io.pro
metheus.client.servlet.common.adapter;version="[0.15,1)",io.prometheus.
client.servlet.common.exporter;version="[0.15,1)",io.prometheus.client.
servlet.common.filter;version="[0.15,1)",javax.servlet;version="[3.1,4)
",javax.servlet.http;version="[3.1,4)"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

* /opt/cola/permits/1338477676_1654302170.9522924/0/simpleclient-servlet-0-15-0-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/1338477676_1654302170.9522924/0/simpleclient-servlet-0-15-0-jar/META-INF/maven/io.prometheus/simpleclient_servlet/pom.xml

1.278 dns-txt 2.0.2

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1.279 mathiasbynens-he v1.2.0

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1.280 code-point-at 1.1.0

1.281 rxjs 3.1.2

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1.282 istanbul-reports 3.0.3

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1.283 tmp1 1.0.5

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1.284 jackson-datatype-joda 2.7.9

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1.285 node-modules-regexp 1.0.0

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1.286 commons-lang3 3.8.1

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1.287 bcel 2.7.1

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1.288 spdy 4.0.2

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* /opt/ws_local/PERMITS_SQL/1073752097_1595443056.68/0/spdy-4-0-2-tgz/package/lib/spdy/server.js

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1.289 v8-compile-cache 2.3.0

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1.290 evp_bytestokey 1.0.3

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1.291 system-memory 4.5.0

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Martin Richards

23 February 2007

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```
<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
```

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 new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
 new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
 new XElement("p", "XML version by Jon Bosak, 1996-1997."),
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Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

For details on the original authors see <http://math.nist.gov/scimark2>

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<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile>\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

<!--

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file
in the dotnet home directory.

-->

<ItemGroup>

<TpnRepo Include="dotnet/runtime" />

<TpnRepo Include="dotnet/aspnetcore" />

<TpnRepo Include="dotnet/installer" />

<TpnRepo Include="dotnet/roslyn-analyzers" />

<TpnRepo Include="dotnet/templating" />

<TpnRepo Include="dotnet/winforms" />

<TpnRepo Include="dotnet/wpf" />

```
<!--
Additional repos that should be included but don't have any third-party-notices files:
dotnet/efcore
dotnet/emsdk
dotnet/extensions
dotnet/icu
dotnet/sdk
dotnet/windowsdesktop
dotnet/linker
-->
```

```
<TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>
```

```
<RegenerateThirdPartyNotices
  TpnFile="$(TpnFile)"
  PotentialTpnPaths="@ (PotentialTpnPath)"
  TpnRepos="@ (TpnRepo)" />
```

```
<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>
```

```
</Project>
```

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https://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 27th, 2022

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jloup@gzip.org madler@alumni.caltech.edu

*/

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By Sean Eron Anderson
seander@cs.stanford.edu

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 27th, 2022

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1.292 specificity 0.3.2

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1.293 dropwizard-request-logging 2.0.29

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1.294 os-browserify 0.3.0

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1.296 jsr181-api 1.0-MR1

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1.297 postcss-convert-values 2.6.1

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1.298 run-queue 1.0.3

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1.299 array-includes 3.1.4

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1.300 jetty-annotations 9.4.26.v20200117

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- * org.eclipse.jetty.orbit:org.eclipse.jdt.core

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- * org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- * org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api

- * javax.annotation:javax.annotation-api

- * javax.transaction:javax.transaction-api

- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications

are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.301 execa 5.1.1

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1.302 types-cheerio 0.22.30

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1.304 fs-extra 9.1.0

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1.305 mxparser 1.2.2

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1.306 jackson-dataformat-yaml 2.14.0

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It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.307 angular-aria 1.6.5

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jar/com/google/common/base/Java8Compatibility.java
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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jar/com/google/common/hash/Java8Compatibility.java
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jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ImmutableMapValues.java
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jar/com/google/common/collect/StandardRowSortedTable.java
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jar/com/google/common/collect/Collections2.java
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jar/com/google/common/collect/Platform.java
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jar/com/google/common/collect/ImmutableSortedSet.java
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jar/com/google/common/collect/Table.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Range.java
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jar/com/google/common/collect/PeekingIterator.java

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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/HashingOutputStream.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Absent.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/Uninterruptibles.java
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Found in path(s):

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/IndexedImmutableSet.java
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* the License.
*/
/**
* Holder for web specializations of methods of { @code Shorts}. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
```

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/MinMaxPriorityQueue.java
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/Subscriber.java
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/Atomic.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/package-info.java

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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredMultimapValues.java

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*/
/**

* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.

*/

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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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jar/com/google/common/graph/AbstractValueGraph.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/MapRetrievalCache.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/DirectedNetworkConnections.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/ForwardingNetwork.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/UndirectedGraphConnections.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Comparators.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/StandardMutableGraph.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/AbstractGraph.java
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*/
/**
* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.
*/

Found in path(s):
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/FloatsMethodsForWeb.java
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*/
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

```

Found in path(s):

```

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ObjectArrays.java

```

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 */

```

Found in path(s):

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedMultisets.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedMultiset.java

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*/

/**

* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
* version.

*/

Found in path(s):

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/IntsMethodsForWeb.java

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jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/CombinedFuture.java
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jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/Network.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/PredecessorsFunction.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/ImmutableNetwork.java
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/CompactHashSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/CompactHashMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/CompactLinkedHashMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/collect/TransformedListIterator.java

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jar/com/google/common/reflect/Reflection.java

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jar/com/google/common/hash/Striped64.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/hash/LongAdder.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/cache/LongAdder.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/AtomicDoubleArray.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/cache/Striped64.java

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*
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap class.
*/

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jar/com/google/common/graph/package-info.java

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*/
/**
* Not supported. You are attempting to create a map that may contain a non-{@code Comparable}
* key. Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
* version.
*
* @throws UnsupportedOperationException always
* @deprecated Pass a key of type {@code Comparable} to use {@link
* ImmutableSortedMap#of(Comparable, Object)}.
*/

Found in path(s):

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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jar/com/google/common/primitives/Platform.java
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jar/com/google/common/collect/GwtTransient.java
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Objects.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Function.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/Files.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/Functions.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/Resources.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/package-info.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/package-info.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/DirectExecutor.java
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jar/com/google/common/collect/ObjectCountLinkedHashMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/ClosingFuture.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ObjectCountHashMap.java
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/BaseEncoding.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/ByteSink.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/StandardSystemProperty.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/CartesianList.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ServiceManager.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableRangeMap.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/PairedStatsAccumulator.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/AbstractByteHasher.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/Closer.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/PairedStats.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/SipHashFunction.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/LongAddable.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/xml/package-info.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/ClassPath.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/CharSink.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/package-info.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/ChecksumHashFunction.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/TypeCapture.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/package-info.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/AbstractInvocationHandler.java
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jar/com/google/common/util/concurrent/MoreExecutors.java

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jar/com/google/common/graph/IncidentEdgeSet.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/CompactHashing.java

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- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ArrayTable.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableSetMultimap.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableSortedSet.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableTable.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ComputationException.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractIndexedListIterator.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableEnumSet.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ComparisonChain.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableAsList.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SingletonImmutableTable.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableList.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/DiscreteDomain.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingTable.java

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jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/thirdparty/publicsuffix/TrieParser.java
```

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/FileBackedOutputStream.java

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*/

/**

* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.

*

* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.

*/

Found in path(s):

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/Partially.java

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 */
```

Found in path(s):

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/EnumBiMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ConcurrentHashMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ImmutableList.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
```

jar/com/google/common/collect/HashMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Multimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/CompoundOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractSetMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/SortedSetMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/package-info.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Lists.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/LinkedListMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/LinkedHashMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Multisets.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/MutableClassToInstanceMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/NullsLastOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Ordering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ImmutableSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Sets.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingCollection.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ReverseOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Multimaps.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ArrayListMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingIterator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ClassToInstanceMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/collect/Maps.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ComparatorOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Interner.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/BiMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Iterables.java
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jar/com/google/common/util/concurrent/ServiceManagerBridge.java
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/MapMakerInternalMap.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/HostSpecifier.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/TypeResolver.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Platform.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/annotations/GwtIncompatible.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/annotations/GwtCompatible.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AbstractIdleService.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/ReferenceEntry.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/UnsignedBytes.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingFuture.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/ArrayBasedCharEscaper.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/xml/XmlEscapers.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/SignedBytes.java

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*/

/*

* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the
* following header:

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*/

Found in path(s):

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/SmallCharMatcher.java

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Found in path(s):

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/PatternCompiler.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/CommonPattern.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/JdkPattern.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/CommonMatcher.java

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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedIterables.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableSortedMultiset.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Count.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RangeSet.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingSortedMultiset.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/GeneralRange.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedIterable.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableSortedMultiset.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractRangeSet.java

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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/ParametricNullness.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/ParametricNullness.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/html/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/ParametricNullness.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/ParametricNullness.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/ParametricNullness.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/ParametricNullness.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/xml/ParametricNullness.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/html/ParametricNullness.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/net/ParametricNullness.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/math/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ParametricNullness.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/ParametricNullness.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/ParametricNullness.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/eventbus/ParametricNullness.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/ParametricNullness.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java
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- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/TimeoutFuture.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/FluentFuture.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/CharEscaper.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
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- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/CollectionFuture.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ImmediateFuture.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/TypeToken.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/annotations/VisibleForTesting.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/Futures.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/CaseFormat.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/AppendableWriter.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/TimeLimiter.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/CharEscaperBuilder.java
- * /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AggregateFuture.java

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*/

/**

* Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular

* version.

*/

Found in path(s):

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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jar/com/google/common/util/concurrent/NullnessCasts.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/NullnessCasts.java

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/NullnessCasts.java

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 */
/*
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 */
```

Found in path(s):

```
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 */
```

*/
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
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Found in path(s):
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Hashing.java

1.309 babel-messages 6.23.0

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1.310 loglevel 1.7.1

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1.311 jest-get-type 25.2.6

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1.312 yargs-parser v18.1.3

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1.313 system-io-compression 4.3.0

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1.315 psl 1.8.0

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1.316 saaj-api 1.3.4

1.317 @webassemblyjs/helper-wasm-bytecode 1.9.0

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1.318 acorn-walk 6.2.0

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1.319 @babel/plugin-syntax-import-meta

7.10.4

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* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
jar/com/sun/jersey/api/client/filter/CsrfProtectionFilter.java

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- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/filter/ConnectionListenerFilter.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/UniformInterfaceException.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/filter/ClientFilter.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/GenericType.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/filter/package-info.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/PartialRequestBuilder.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/client/impl/async/FutureClientResponseListener.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/ClientHandler.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/async/FutureListener.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/ComponentsClientConfig.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/async/ITypeListener.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/RequestBuilder.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/async/AsyncClientHandler.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/WebResourceLinkHeaders.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/ViewUniformInterface.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/async/TypeListener.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/client/urlconnection/HTTPSPProperties.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/AsyncViewUniformInterface.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/package-info.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/ViewResource.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/ClientHandlerException.java
- * /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-

jar/com/sun/jersey/api/client/filter/OnStartConnectionListener.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
jar/com/sun/jersey/client/urlconnection/HttpURLConnectionFactory.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
jar/com/sun/jersey/api/client/config/package-info.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
jar/com/sun/ws/rs/ext/RuntimeDelegateImpl.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
jar/com/sun/jersey/api/client/RequestWriter.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
jar/com/sun/jersey/client/impl/ClientRequestImpl.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
jar/com/sun/jersey/api/client/ClientRequestAdapter.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
jar/com/sun/jersey/client/proxy/ViewProxyProvider.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
jar/com/sun/jersey/client/proxy/ViewProxy.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
jar/com/sun/jersey/api/client/filter/ContainerListener.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
jar/com/sun/jersey/api/client/AsyncUniformInterface.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
jar/com/sun/jersey/api/client/AbstractClientRequestAdapter.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
jar/com/sun/jersey/api/client/TerminatingClientHandler.java
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* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/AsyncViewResource.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/ClientResponse.java

1.322 spring-context 5.3.25

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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

- org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.331 slf4j-api-module 1.7.30

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1.332 jsr311-api 1.1.1

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1.333 cli-width 2.2.1

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1.334 open-csv 2.0

1.335 vijava 5.1

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```
2j.com/vmware/vim25/mo/samples/lic/PrintLicensejava/lang/Object<init>()VCode
LineNumberTableLocalVariableTablethis.Lcom/vmware/vim25/mo/samples/lic/PrintLicense;main([Ljava/lang/Stri
ng;)V
Exceptionsjava/lang/Exception java/lang/SystemoutLjava/io/PrintStream;4Usage: java PrintLicense <url>
<username> <password>
java/io/PrintStream println(Ljava/lang/String;)V"#com/vmware/vim25/mo/ServiceInstance$java/net/URL
#&
!)06(Ljava/net/URL;Ljava/lang/String;Ljava/lang/String;Z)V
!+,-getLicenseManager&()Lcom/vmware/vim25/mo/LicenseManager;Ljava/lang/StringBuilder1License edition:
.&
465"com/vmware/vim25/mo/LicenseManager78getLicensedEdition()Ljava/lang/String;
.:;<append-(Ljava/lang/String;)Ljava/lang/StringBuilder;
.>?8toStringALicnese source available:
4CDEgetSourceAvailable()Z
.G;H(Z)Ljava/lang/StringBuilder;
4JKL getSource"()Lcom/vmware/vim25/LicenseSource;
NOPprintLicenseSource#(Lcom/vmware/vim25/LicenseSource;)VRLicense Diagnostic Info:
4TUVgetDiagnostics'()Lcom/vmware/vim25/LicenseDiagnostics;
XYZprintDiagnostics((Lcom/vmware/vim25/LicenseDiagnostics;)V\
License Features:
4^_querySupportedFeaturesH(Lcom/vmware/vim25/mo/HostSystem;)[Lcom/vmware/vim25/LicenseFeatureInfo;
bcdprintLicenseFeatures)([Lcom/vmware/vim25/LicenseFeatureInfo;)Vf
```

License Usage:

```
4hijqueryLicenseUsageE(Lcom/vmware/vim25/mo/HostSystem;)Lcom/vmware/vim25/LicenseUsageInfo;
```

```
lmpnprintLicenseUsage&(Lcom/vmware/vim25/LicenseUsageInfo;)Vp
```

License source availability:

```
4rstqueryLicenseSourceAvailabilityM(Lcom/vmware/vim25/mo/HostSystem;)[Lcom/vmware/vim25/LicenseAvailabilityInfo;
```

```
vwxprintLicenseAvailable.([Lcom/vmware/vim25/LicenseAvailabilityInfo;)V
```

```
!z{|getServerConnection()Lcom/vmware/vim25/mo/ServerConnection;
```

```
~$com/vmware/vim25/mo/ServerConnectionlogoutargs[Ljava/lang/String;si%Lcom/vmware/vim25/mo/ServiceInstance;lm$Lcom/vmware/vim25/mo/LicenseManager;
```

StackMapTableFeature:

```
(com/vmware/vim25/LicenseAvailabilityInfo
```

```
getFeature')Lcom/vmware/vim25/LicenseFeatureInfo;
```

```
#com/vmware/vim25/LicenseFeatureInfo8getFeatureNameTotal licenses:
```

```
getTotal()I
```

```
.;(I)Ljava/lang/StringBuilder;Available licenses:
```

```
getAvailablels+[Lcom/vmware/vim25/LicenseAvailabilityInfo;i!The list of feature reservations:
```

```
!com/vmware/vim25/LicenseUsageInfogetReservationInfo,()[Lcom/vmware/vim25/LicenseReservationInfo;
```

Feature key :

```
'com/vmware/vim25/LicenseReservationInfo8getKeyRequired license:
```

```
getRequiredState:
```

```
getState0()Lcom/vmware/vim25/LicenseReservationInfoState;
```

```
.- (Ljava/lang/Object;)Ljava/lang/StringBuilder;4All the features that are referenced in reservation:
```

```
getFeatureInfo()[Lcom/vmware/vim25/LicenseFeatureInfo;License source:
```

JLicense source available:

```
EisSourceAvailableui#Lcom/vmware/vim25/LicenseUsageInfo;ris*[Lcom/vmware/vim25/LicenseReservationInfo;(
```

```
com/vmware/vim25/EvaluationLicenseSource#Evaluation license: will expire in
```

```
getRemainingHours()Ljava/lang/Long; hours.$com/vmware/vim25/LicenseServerSourceLicense from server:
```

```
8getLicenseServer#com/vmware/vim25/LocalLicenseSourceLocal license key:
```

```
8getLicenseKeyssrc Lcom/vmware/vim25/LicenseSource;
```

FeatureName:

CostUnit:

```
8getCostUnit
```

DependentKey:

```
getDependentKey()[Ljava/lang/String;
```

```
java/lang/StringvalueOf&(Ljava/lang/Object;)Ljava/lang/String;
```

Edition:

```
getEdition()Ljava/lang/Boolean;
```

ExpiresOn:

```
getExpiresOn()Ljava/util/Calendar;
```

FeatureDescription:

```
8getFeatureDescription
```

Key:

SourceRestriction:

```

8getSourceRestriction!
State:
#$(.)Lcom/vmware/vim25/LicenseFeatureInfoState;fis&[Lcom/vmware/vim25/LicenseFeatureInfo;pvtStrLjava/lang
/String;depj-LastStatusUpdate:
/10#com/vmware/vim25/LicenseDiagnostics2getLastStatusUpdate
465java/util/Calendar78getTime()Ljava/util/Date;;
LicenseFeatureUnknown:
/<=8getLicenseFeatureUnknowns?
LicneseRequestFailures:
/AB8getLicenseRequestFailuresD
LicenseReqeusts:
/FG8getLicenseRequestsI
OpFailiureMessage:
/KL8getOpFailureMessageN
OpState:
/PQR
getOpState()Lcom/vmware/vim25/LicenseManagerState;T
SourceLastChanged:
/VWgetSourceLastChangedY
sourceLatency:
/[\\]getSourceLatency()F
._;`(F)Ljava/lang/StringBuilder;b
sourceLost:
/de8
getSourceLostId%Lcom/vmware/vim25/LicenseDiagnostics;
SourceFilePrintLicense.java!/*
2
T*!Y#Y*2%*2*2L+*M.Y02,39=.Y@2,BF=,IMQ,SW[,],ae,gko,qu+y }
f68:=>=$( @-B9CCBFERF\E_HfJnKuO}PRSUWVYZ (-wxg<Z.Y2*29=.Y2*2=.Y2*2=* *
*
^`a `#b>cJdVcY^ffgdV mn;*L=W.Y2+29=.Y2+2=.Y2+2=+ +*a*M.Y2*F=
Fjk
ln-o9pEoHqclptxvxy{|{ }
aS OPu*'.Y2*9=L*".Y2*9=&*'.Y2*9=
:#+2>KQXdqtu+% "cd<.Y2*299*299=M*2N6".Y,2-299=M-
-.Y,29*2
9*29*299*299*29 9*2"=M,* * &
V%*-.5;We4%&.(5)8-*5+
r YZ
*.Y,2*.399*,9>9* @9C9*E9H9*J9M9*OS9*U3X9*Z^a9*c9=L+
F&,3@MZjwfg'(hi
/*=====
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```

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=====*/

```
package com.vmware.vim25;
import java.util.Calendar;
```

```
/**
```

```
 * @author Steve Jin (http://www.doublecloud.org)
```

```
 * @version 5.1
```

```
*/
```

```
@SuppressWarnings("all")
```

```
public class ExpiredFeatureLicense extends NotEnoughLicenses {
    public String feature;
    public int count;
    public Calendar expirationDate;
```

```
    public String getFeature() {
        return this.feature;
    }
```

```
    public int getCount() {
        return this.count;
    }
```

```
    public Calendar getExpirationDate() {
        return this.expirationDate;
    }
```

```

public void setFeature(String feature) {
    this.feature=feature;
}

public void setCount(int count) {
    this.count=count;
}

public void setExpirationDate(Calendar expirationDate) {
    this.expirationDate=expirationDate;
}
}
/*=====

```

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=====*/

```

package com.vmware.vim25;

```

```

/**

```

```

 * @author Steve Jin (http://www.doublecloud.org)

```

```

 * @version 5.1

```

*/

```
@SuppressWarnings("all")
public class ExpiredAddonLicense extends ExpiredFeatureLicense {
}
```

/*=====

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=====*/

```
package com.vmware.vim25;
```

```
/**
```

```
* @author Steve Jin (http://www.doublecloud.org)
```

```
* @version 5.1
```

```
*/
```

```
@SuppressWarnings("all")
public class NotEnoughLicenses extends RuntimeException {
}
```

```
2com/vmware/vim25/InvalidLicensecom/vmware/vim25/VimFaultlicenseContentLjava/lang/String;<init>()VCode
LineNumberTableLocalVariableTablethis!Lcom/vmware/vim25/InvalidLicense;getLicenseContent()Ljava/lang/Stri
ng; setLicenseContent(Ljava/lang/String;)V
```

SourceFileInvalidLicense.java! /*

&
/**
>*+
./

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=====*/

```
package com.vmware.vim25;
```

```
/**
```

```
 * @author Steve Jin (http://www.doublecloud.org)
```

```
 * @version 5.1
```

```
 */
```

```
@SuppressWarnings("all")
```

```
public class ExpiredEditionLicense extends ExpiredFeatureLicense {  
}
```

```
2(&com/vmware/vim25/ExpiredFeatureLicense"com/vmware/vim25/NotEnoughLicensesfeatureLjva/lang/String;countIexpirationDateLjva/util/Calendar;<init>()VCode
```

```
LineNumberTableLocalVariableTablethis(Lcom/vmware/vim25/ExpiredFeatureLicense;
```

```
getFeature()Ljva/lang/String; getCount()I getExpirationDate()Ljva/util/Calendar;
```

```
setFeature(Ljva/lang/String;)VsetCount(I)VsetExpirationDate(Ljva/util/Calendar;)V
```

```
SourceFileExpiredFeatureLicense.java!
```

```
/*'
```

```
/*-
```

```
/*1
```

```
/*5 !
```

```
>*+
```

```
9:"#
```

```
>*
```

```
=>$%
```

```
>*+
```

```
AB
```

```
&'
```

```
2&com/vmware/vim25/ExpiredEditionLicense&com/vmware/vim25/ExpiredFeatureLicense<init>()VCode
```

```
LineNumberTableLocalVariableTablethis(Lcom/vmware/vim25/ExpiredEditionLicense;
```

```

SourceFileExpiredEditionLicense.java!/*
&
2&com/vmware/vim25/InvalidEditionLicense"com/vmware/vim25/NotEnoughLicensesfeatureL.java/lang/String;<init>()VCode
it>()VCode
LineNumberTableLocalVariableTablethis(Lcom/vmware/vim25/InvalidEditionLicense;
getFeature()Ljava/lang/String;
setFeature(Ljava/lang/String;)V
SourceFileInvalidEditionLicense.java!/*
&
/**
>*+
./
2$com/vmware/vim25/ExpiredAddonLicense&com/vmware/vim25/ExpiredFeatureLicense<init>()VCode
LineNumberTableLocalVariableTablethis&Lcom/vmware/vim25/ExpiredAddonLicense;
SourceFileExpiredAddonLicense.java!/*
&
/*-----
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```

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=====*/

```
package com.vmware.vim25;
```

```

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class VmLimitLicense extends NotEnoughLicenses {
    public int limit;

    public int getLimit() {
        return this.limit;
    }

    public void setLimit(int limit) {
        this.limit=limit;
    }
}
2com/vmware/vim25/VmLimitLicense"com/vmware/vim25/NotEnoughLicenseslimitI<init>()VCode
LineNumberTableLocalVariableTablethis!Lcom/vmware/vim25/VmLimitLicense;setLimit(I)V
SourceFileVmLimitLicense.java! /*
&
/**
>*/
./
/*=====

```

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=====*/

```
package com.vmware.vim25;
```

```
/**
```

```
 * @author Steve Jin (http://www.doublecloud.org)
```

```
 * @version 5.1
```

```
*/
```

```
@SuppressWarnings("all")
```

```
public class InvalidLicense extends VimFault {
```

```
    public String licenseContent;
```

```
    public String getLicenseContent() {
```

```
        return this.licenseContent;
```

```
    }
```

```
    public void setLicenseContent(String licenseContent) {
```

```
        this.licenseContent=licenseContent;
```

```
    }
```

```
}
```

```
/*=====
```

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=====*/

```
package com.vmware.vim25;
```

```
/**
```

```
* @author Steve Jin (http://www.doublecloud.org)
```

```
* @version 5.1
```

```
*/
```

```
@SuppressWarnings("all")
```

```
public class VramLimitLicense extends NotEnoughLicenses {
```

```
    public int limit;
```

```
    public int getLimit() {
```

```
        return this.limit;
```

```
    }
```

```
    public void setLimit(int limit) {
```

```
        this.limit=limit;
```

```
    }
```

```
}
```

```
/*=====
```

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=====*/

```
package com.vmware.vim25;
```

```
/**
```

```
 * @author Steve Jin (http://www.doublecloud.org)
```

```
 * @version 5.1
```

```
*/
```

```
@SuppressWarnings("all")
```

```
public class Permission extends DynamicData {
```

```
    public ManagedObjectReference entity;
```

```
    public String principal;
```

```
    public boolean group;
```

```
    public int roleId;
```

```
    public boolean propagate;
```

```
    public ManagedObjectReference getEntity() {
```

```
        return this.entity;
```

```
    }
```

```
    public String getPrincipal() {
```

```
        return this.principal;
```

```
    }
```

```
    public boolean isGroup() {
```

```
        return this.group;
```

```
    }
```

```
    public int getRoleId() {
```

```
        return this.roleId;
```

```
    }
```

```
    public boolean isPropagate() {
```

```
        return this.propagate;
```

```
    }
```

```
    public void setEntity(ManagedObjectReference entity) {
```

```
        this.entity=entity;
```

```
    }
```

```
    public void setPrincipal(String principal) {
```

```

    this.principal=principal;
}

public void setGroup(boolean group) {
    this.group=group;
}

public void setRoleId(int roleId) {
    this.roleId=roleId;
}

public void setPropagate(boolean propagate) {
    this.propagate=propagate;
}
}

```

```

/*=====

```

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```

=====*/

```

```

package com.vmware.vim25;

```

```

/**

```

* @author Steve Jin (<http://www.doublecloud.org>)

* @version 5.1

*/

@SuppressWarnings("all")

public class InvalidEditionLicense extends NotEnoughLicenses {

public String feature;

public String getFeature() {

return this.feature;

}

public void setFeature(String feature) {

this.feature=feature;

}

}

25com/vmware/vim25/Permissioncom/vmware/vim25/DynamicDataentity)Lcom/vmware/vim25/ManagedObjectRe

ference; principalLjava/lang/String;groupZroleIdI propagate<init>()VCode

LineNumberTableLocalVariableTablethisLcom/vmware/vim25/Permission;

getEntity+()Lcom/vmware/vim25/ManagedObjectReference; getPrincipal()Ljava/lang/String; isGroup()Z "

getRoleId()I &isPropagate)

setEntity,(Lcom/vmware/vim25/ManagedObjectReference;)VsetPrincipal(Ljava/lang/String;)VsetGroup(Z)V

setRoleId(I)VsetPropagate

SourceFilePermission.java!

/*&/*./*2 /*!6#\$/%:' /*(>*>*+

BC,->*+

FG./>*!

JK

01>*%

NO2/>*(

RS

34

2!com/vmware/vim25/VramLimitLicense"com/vmware/vim25/NotEnoughLicenseslimitI<init>()VCode

LineNumberTableLocalVariableTablethis#Lcom/vmware/vim25/VramLimitLicense;getLimit()I setLimit(I)V

SourceFileVramLimitLicense.java! /*

&

/**

>*

./

2"com/vmware/vim25/NotEnoughLicensescom/vmware/vim25/RuntimeFault<init>()VCode

LineNumberTableLocalVariableTablethis\$Lcom/vmware/vim25/NotEnoughLicenses;

SourceFileNotEnoughLicenses.java!/*

&

1.336 at-least-node 1.0.0

1.336.1 Available under license :

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1.337 outlayer 1.4.2

1.337.1 Available under license :

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```
/*!  
* Outlayer v1.4.2  
* the brains and guts of a layout library  
* MIT license  
*/
```

Found in path(s):

* /opt/cola/permits/1287142296_1647239056.14/0/outlayer-1-4-2-tgz/package/outlayer.js

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Outlayer

Brains and guts of a layout library

Outlayer is a base layout class for layout libraries like [Isotope](<http://isotope.metafizzy.co>), [Packery](<http://packery.metafizzy.co>), and [Masonry](<http://masonry.desandro.com>)

Outlayer layouts work with a container element and children item elements.

```
``` html  
<div class="container">
 <div class="item"></div>
 <div class="item"></div>
 <div class="item"></div>
```

```
...
</div>
...

```

## ## Install

Install with [Bower](http://bower.io): `bower install outlayer`

[Install with npm](http://npmjs.org/package/outlayer): `npm install outlayer`

## ## Outlayer.create()

Create a layout class with `Outlayer.create()`

```
``` js
var Layout = Outlayer.create( namespace );
// for example
var Masonry = Outlayer.create('masonry');
...

+ `namespace` _{String}_ should be camelCased
+ returns `LayoutClass` _{Function}_

```

Create a new layout class. `namespace` is used for jQuery plugin, and for declarative initialization.

The `Layout` inherits from [`Outlayer.prototype`](docs/outlayer.md).

```
...
var elem = document.querySelector('#selector');
var msnry = new Masonry( elem, {
  // set options...
  columnWidth: 200
});
...

```

Item

Layouts work with Items, accessible as `Layout.Item`. See [Item API](docs/item.md).

Declarative

An Outlayer layout class can be initialized via HTML, by setting a class of `js-namespace` on the element. Options can be set via a `data-namespace-options` attribution. For example:

```
``` html
<!-- var Masonry = Outlayer.create('masonry') -->
<div id="container" class="js-masonry"
 data-masonry-options='{ "itemSelector": ".item", "columnWidth": 200 }'>

```

```
...
</div>
...

```

The declarative attributes and class will be dashed. i.e. `Outlayer.create('myNiceLayout')` will use `js-my-nice-layout` the class and `data-my-nice-layout-options` as the options attribute.

```
.data()
```

Get a layout instance from an element.

```
...
var myMasonry = Masonry.data(document.querySelector('#container'));
...

```

```
jQuery plugin
```

The layout class also works as jQuery plugin.

```
``` js
// create Masonry layout class, namespace will be the jQuery method
var Masonry = Outlayer.create('masonry');
// rock some jQuery
$( function() {
  // .masonry() to initialize
  var $container = $('#container').masonry({
    // options...
  });
  // methods are available by passing a string as first parameter
  $container.masonry( 'reveal', elems );
});
```
```

```
RequireJS
```

To use Outlayer with [RequireJS](<http://requirejs.org/>), you'll need to set some config.

Set [baseUrl](<http://requirejs.org/docs/api.html#config-baseUrl>) to bower\_components and set a [paths](<http://requirejs.org/docs/api.html#config-paths>) for all your application code.

```
``` js
requirejs.config({
  baseUrl: 'bower_components',
  paths: {
    app: '../'
  }
});
```
```

```
requirejs(['outlayer/outlayer', 'app/my-component.js'], function(Outlayer, myComp) {
 new Outlayer(/*...*/)
});
```
```

Or set a path config for all Outlayer dependencies.

```
``` js
requirejs.config({
 paths: {
 eventie: 'bower_components/eventie',
 'doc-ready': 'bower_components/doc-ready',
 eventEmitter: 'bower_components/eventEmitter',
 'get-style-property': 'bower_components/get-style-property',
 'get-size': 'bower_components/get-size',
 'matches-selector': 'bower_components/matches-selector'
 }
});
```
```

MIT license

Outlayer is released under the [MIT license](http://desandro.mit-license.org).

Found in path(s):

* /opt/cola/permits/1287142296_1647239056.14/0/outlayer-1-4-2-tgz/package/README.md

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Changelog

v1.4.2

+ Added `parseFloat()` for percent values. Switched back to pixels for transform values. Fixed [#37](https://github.com/metafizzy/outlayer/issues/37), [isotope#948](https://github.com/metafizzy/isotope/issues/948)

v1.4.1

+ Trigger jQuery Events. Fixed [#6](https://github.com/metafizzy/outlayer/issues/6)
+ Fix Safari `percentPosition` bug by checking and using percent values. Fixed [desandro/masonry#698](https://github.com/desandro/masonry/issues/698)
+ Fix Safari bug with appended/prepended methods. Fixed [metafizzy/isotope#945](https://github.com/metafizzy/isotope/issues/945).
+ Fixed sizing bug with `percentPosition` and border on container element

v1.4.0

+ Added `revealComplete` and `hideComplete` events

- + Added ``hideItemElements`` and ``revealItemElement`` methods
- + Added ``percentPosition`` option
- + Removed ``instance`` argument from ``layoutComplete`` and ``removeComplete`` events
- + Changed ``bower.json`` ``main`` to just ``outlayer.js``

v1.3.0

- + add CommonJS support for [Browserify](http://browserify.org) [#17](https://github.com/metafizzy/outlayer/issues/17)
- + remove [jQuery Bridget](https://github.com/desandro/jquery-bridget) as an explicit dependency

v1.2.0

- + Use ``constructor.defaults`` for default options
- + add ``isResizingContainer`` option and ``resizeContainer`` method
- + add ``needsResizeLayout()`` for [#9](https://github.com/metafizzy/outlayer/issues/9)
- + Fix [#5](https://github.com/metafizzy/outlayer/pull/5) IE8 bug with destroy and resize

v1.1.10

- + Specify MIT license
- + Ignore other stuff for Bower package
- + add ``Item.isLayoutInstant``
- + move ``namespace`` to ``.constructor``

v1.1.9

- + Removed ``Layout.prototype.settings``. Broke backwards compatibility with Packery \geq v1.2.0.

v1.1.8

- + ``.manageStamps()`` when prepending. Fixed desandro/masonry#403

v1.1.7

- + ``.addItem()`` returns empty array if no items. Fixed desandro/masonry#401

v1.1.6

v1.1.5

v1.1.4

v1.1.3

v1.1.2

v1.1.1

+ Fixed removing item when `transitionDuration` = 0

v1.1.0

+ Add RequireJS / AMD support

v1.0.0

Found in path(s):

* /opt/cola/permits/1287142296_1647239056.14/0/outlayer-1-4-2-tgz/package/docs/changelog.md

1.338 stylelint-config-standard 17.0.0

1.338.1 Available under license :

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1.339 type-is 1.6.18

1.339.1 Available under license :

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1.340 commons-beanutils 1.8.3

1.340.1 Available under license :

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Version 2.0, January 2004

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1.343 babel-runtime 6.26.0

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1.344 postcss-filter-plugins 2.0.3

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1.345 mousetrap 1.6.5

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1.347 istanbul-lib-instrument 4.0.3

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1.348 jackson-module-parameter-names

2.13.1

1.348.1 Available under license :

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1.349 run-async 0.1.0

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1.350 jackson 2.14.0

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1.351 aria-query v4.2.2

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1.352 stax-api 1.0 2

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Found in path(s):

```
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/misc/TypeConverter.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/FunctionMapper.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/MapELResolver.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/tree/ExpressionNode.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/Bindings.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/TreeCache.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/misc/MethodInvocation.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/ExpressionFactoryImpl.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
```

jar/javax/el/PropertyNotWritableException.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/misc/TypeConverterImpl.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/ELResolver.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/ArrayELResolver.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/FunctionNode.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/tree/impl/ast/AstBinary.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/tree/impl/ast/AstMethod.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/Node.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/BeanELResolver.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/impl/Cache.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/tree/impl/ast/AstUnary.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/tree/impl/ast/AstFunction.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/misc/LocalMessages.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/ELContextEvent.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/tree/impl/ast/AstLiteral.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/NodePrinter.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/ListELResolver.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/ELContext.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/ObjectValueExpression.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/ELContextListener.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/tree/impl/ast/AstRightValue.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/util/SimpleResolver.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/ELException.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/tree/impl/ast/AstIdentifier.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/impl/Builder.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/impl/Parser.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/tree/impl/ast/AstNull.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/tree/impl/ast/AstBracket.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/javax/el/MethodNotFoundException.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/tree/impl/ast/AstComposite.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
 jar/de/odysseus/el/tree/impl/ast/AstBoolean.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/MethodInfo.java
 * /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-

jar/de/odysseus/el/misc/BooleanOperations.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/tree/impl/ast/AstEval.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/tree/impl/ast/AstInvocation.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/util/SimpleContext.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/ExpressionFactory.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/TreeStore.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/TreeValueExpression.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/TreeMethodExpression.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/Tree.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/IdentifierNode.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/tree/impl/ast/AstString.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/ValueExpression.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/VariableMapper.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/MethodExpression.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/tree/impl/ast/AstProperty.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/CompositeELResolver.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/tree/impl/ast/AstChoice.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/javax/el/PropertyNotFoundException.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/tree/impl/ast/AstNested.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/tree/TreeBuilderException.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/javax/el/ResourceBundleELResolver.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/misc/NumberOperations.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/tree/impl/ast/AstText.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/impl/ast/AstDot.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/TreeBuilder.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/javax/el/Expression.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/tree/impl/ast/AstNode.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-
jar/de/odysseus/el/tree/impl/ast/AstNumber.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/impl/Scanner.java

1.358 jboss-logging 3.4.1.Final

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1.359 deep-equal-ident 1.1.1

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1.360 vfile-message 1.1.1

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1.361 xml-name-validator 3.0.0

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1.362 gson 2.8.9

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- * /opt/cola/permits/1550776944_1675301335.8363905/0/gson-2-8-9-sources-4-jar/com/google/gson/internal/Primitives.java
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jar/com/google/gson/reflect/TypeToken.java
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* /opt/cola/permits/1550776944_1675301335.8363905/0/gson-2-8-9-sources-4-jar/com/google/gson/JsonIOException.java
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jar/com/google/gson/FieldAttributes.java

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* /opt/cola/permits/1550776944_1675301335.8363905/0/gson-2-8-9-sources-4-

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1.364 guice-assistedinject 4.2.3

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1.367 through 1.0.5

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1.368 integration-rest 10.1.0

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```

Found in path(s):

```
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-
jar/com/synopsys/integration/rest/exception/IntegrationRestException.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-
jar/com/synopsys/integration/rest/body/MapBodyContent.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-
jar/com/synopsys/integration/rest/HttpMethod.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-
jar/com/synopsys/integration/rest/service/IntResponseTransformer.java
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jar/com/synopsys/integration/rest/exception/IntegrationCertificateException.java
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jar/com/synopsys/integration/rest/body/FileBodyContent.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-
jar/com/synopsys/integration/rest/response/Response.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-
jar/com/synopsys/integration/rest/body/MultipartBodyContent.java
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jar/com/synopsys/integration/rest/component/IntRestComponent.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-
jar/com/synopsys/integration/rest/response/DefaultResponse.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-
jar/com/synopsys/integration/rest/request/PageRequestHandler.java
```

* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/service/IntJsonTransformer.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/body/BodyContentConverter.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/support/AuthenticationSupport.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/credentials/CredentialsBuilder.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/component/IntRestResponse.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/exception/ApiException.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/client/ConnectionResult.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/RestConstants.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/proxy/ProxyInfo.java
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* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/request/Request.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/client/BasicAuthHttpClient.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/response/ErrorResponse.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/credentials/Credentials.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/body/ObjectBodyContent.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/client/AuthenticatingIntHttpClient.java
* /opt/cola/permits/1225964305_1636479349.02/0/integration-rest-10-1-0-sources-jar/com/synopsys/integration/rest/body/BodyContent.java

1.369 jackson 2.13.1

1.369.1 Available under license :

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Additional -

File: PSReadLine

<https://github.com/lzybkr/PSReadLine>

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File: Hashtables from ConvertFrom-json

<https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h>

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1.372 css-blank-pseudo 0.1.4

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1.373 eslint-plugin-import 0.3.6

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1.374 dropwizard-servlets 2.0.29

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1.376 jetty-proxy 9.4.48.v20220622

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javafx.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.377 jackson-datatype-jsr310 2.13.2

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1.378 hash-base 3.1.0

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1.379 known-css-properties 0.5.0

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%% winjs version 4.4.0 (<https://github.com/winjs/winjs>)

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WinJS

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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15. **APPLICABLE LAW.** If you acquired the software in the United States, Washington State law applies to interpretation of and claims for breach of this agreement, and the laws of the state where you live apply to all other claims. If you acquire the software in any other country, its laws apply.

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a) **Australia.** References to “Limited Warranty” mean the express warranty provided by Microsoft or the manufacturer or installer. This warranty is in addition to other rights and remedies you may have under law,

including your rights and remedies under the statutory guarantees in the Australian Consumer Law.

In this section, “goods” refers to the software for which Microsoft or the manufacturer or installer provides the express warranty. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

b) Canada. If you acquired this software in Canada, you may stop receiving updates by turning off the automatic update feature, disconnecting your device from the Internet (if and when you re-connect to the Internet, however, the software will resume checking for and installing updates), or uninstalling the software. The product documentation, if any, may also specify how to turn off updates for your specific device or software.

c) Germany and Austria.

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It also applies even if Microsoft knew or should have known about the possibility of the damages. The above limitation or exclusion may not apply to you because your state or country may not allow the exclusion or limitation of incidental, consequential or other damages.

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TO THE EXTENT PERMITTED BY LAW, ANY IMPLIED WARRANTIES, GUARANTEES OR CONDITIONS LAST ONLY DURING THE TERM OF THE LIMITED WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so these limitations may not apply to you. They also might not apply to you because some countries may not allow limitations on how long an implied warranty, guarantee or condition lasts.

C. EXCLUSIONS FROM WARRANTY. This warranty does not cover problems caused by your acts (or failures to act), the acts of others, or events beyond Microsoft's reasonable control.

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E. CONSUMER RIGHTS NOT AFFECTED. YOU MAY HAVE ADDITIONAL CONSUMER RIGHTS UNDER YOUR LOCAL LAWS, WHICH THIS AGREEMENT CANNOT CHANGE.

F. WARRANTY PROCEDURES. You need proof of purchase for warranty service.

1. United States and Canada. For warranty service or information about how to obtain a refund for software acquired in the United States and Canada, contact Microsoft at:

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- the Microsoft affiliate serving your country (see aka.ms/msoffices).

3. Australia. For Warranty Services and to claim expenses in relation to the warranty (if applicable) for software acquired in Australia, contact Microsoft at:

- 13 20 58; or
- Microsoft Pty Ltd, 1 Epping Road, North Ryde NSW 2113, Australia.

4. Outside the United States, Canada, Europe, Middle East, Africa, and Australia. If you acquired the software outside the United States, Canada, Europe, the Middle East, Africa, and Australia, contact the Microsoft affiliate serving your country (see aka.ms/msoffices).

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FOR AUSTRALIA ONLY. References to "Limited Warranty" are references to the warranty provided by Microsoft. This warranty is given in addition to other rights and remedies you may have under law, including your rights and remedies in accordance with the statutory guarantees under the Australian Consumer Law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. Goods presented for repair may be replaced by refurbished goods of the same type rather than being replaced. Refurbished parts may be used to repair the goods.

H. LIMITATION ON AND EXCLUSION OF DAMAGES FOR BREACH OF WARRANTY. THE LIMITATION ON AND EXCLUSION OF DAMAGES CLAUSE ABOVE APPLIES TO BREACHES OF THIS LIMITED

WARRANTY.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM COUNTRY TO COUNTRY.

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va
* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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Type.java
* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-

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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
jar/com/synopsys/integration/blackduck/api/manual/temporary/view/ExternalExtensionConfigValueView.java
* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
jar/com/synopsys/integration/blackduck/api/manual/temporary/enumeration/CodeLocationStatusType.java
* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
jar/com/synopsys/integration/blackduck/api/generated/component/OriginLicenseLicensesLicenseFamilySummaryView.java
* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
jar/com/synopsys/integration/blackduck/api/generated/view/LicenseView.java
* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
jar/com/synopsys/integration/blackduck/api/manual/temporary/component/CustomFieldValueRequest.java
* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
jar/com/synopsys/integration/blackduck/api/manual/temporary/component/Role.java
* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
jar/com/synopsys/integration/blackduck/api/generated/deprecated/enumeration/VersionBomComponentMatchType.java

ava

- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/view/RoleAssignmentView.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/view/LicenseTermCategoryView.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/enumeration/CustomFieldType.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/view/ProjectVersionComponentVersionCustomFieldView.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/component/GraphComponentImportEventsCountView.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/view/PolicyRuleView.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/manual/temporary/view/VulnerabilityView.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/manual/component/VulnerabilitySourceQualifiedId.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/manual/temporary/view/ExternalExtensionView.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/enumeration/ProjectVersionComponentVersionVulnerabilityRemediationCvss3SeverityType.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/deprecated/enumeration/VersionBomComponentReviewStatusType.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/deprecated/view/ReportContent.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/core/response/UrlMultipleResponses.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/manual/view/LicenseLimitNotificationUserView.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/manual/temporary/component/CustomFieldUpdateRequest.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/component/DeveloperScansScanItemsPolicyViolationsViolatingPoliciesView.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/component/VulnerabilityDefaultRemediationStatusView.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/core/response/LinkBlackDuckResponse.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/component/ProjectVersionItemsTriggerDataView.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/manual/temporary/view/LicenseTermView.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/deprecated/component/CustomFieldOptionView.java
- * /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-

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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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eType.java
* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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rsionCommentUserView.java
* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-
jar/com/synopsys/integration/blackduck/api/generated/view/LicenseTextView.java

* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/enumeration/VulnerabilityCvss3AvailabilityImpactType.java

* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/manual/temporary/component/SearchResultStatistics.java

* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/manual/temporary/component/ManualVersionBomComponentRequest.java

* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/response/UserGroupProjectsView.java

* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/manual/view/NotificationUIView.java

* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-jar/com/synopsys/integration/blackduck/api/generated/deprecated/view/PolicyStatusView.java

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* /opt/cola/permits/1224358736_1636048534.35/0/blackduck-common-api-2021-6-0-0-sources-

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* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.388 type-detect 4.0.8

1.389 asn1.js v5.4.1

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1.390 asm-commons 7.2

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jar/org/objectweb/asm/commons/package.html

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/**
 * Constructs a new { @link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the { @link #SerialVersionUIDAdder(int, ClassVisitor)}
 * version.
 *
 * @param classVisitor a { @link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */
```

Found in path(s):

```
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
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jar/org/objectweb/asm/commons/ClassRemapper.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/ModuleResolutionAttribute.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/FieldRemapper.java
```



```
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/ModuleRemapper.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/SignatureRemapper.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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jar/org/objectweb/asm/commons/MethodRemapper.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/AnnotationRemapper.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/Remapper.java
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/**
```

```
* Constructs a new {@link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
* Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
* version.
*
* @param methodVisitor the method visitor to which this adapter delegates calls.
* @param access the method's access flags (see {@link Opcodes}).
* @param name the method's name.
* @param descriptor the method's descriptor (see {@link Type}).
* @throws IllegalStateException if a subclass calls this constructor.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
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/**
 * Constructs a new { @link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the { @link #LocalVariablesSorter(int, int, String, MethodVisitor)}
 * version.
 *
 * @param access access flags of the adapted method.
 * @param descriptor the method's descriptor (see { @link Type}).
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @throws IllegalStateException if a subclass calls this constructor.
 */
```

Found in path(s):

```
*/opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
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```

1.391 tty-browserify 0.0.0

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1.392 angular-sanitize 1.6.5

1.393 ion-java 1.0.2

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1.396 multicast-dns 6.2.3

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1.398 buffer-from 1.1.2

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1.400 jetty-util 9.4.48.v20220622

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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.401 mpclib 1.1.0

1.401.1 Available under license :

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1.402 requirejs 2.1.20

1.403 aws4 v1.11.0

1.403.1 Available under license :

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1.404 get-caller-file 2.0.5

1.405 mockito-all 1.10.19

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1.406 error_prone_annotations 2.3.3

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Found in path(s):

```
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/NoAllocation.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
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* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/FormatString.java

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* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/CheckReturnValue.java

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* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/IncompatibleModifiers.java

1.407 activemq-kahadb-store 5.16.1

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1.409 javax-inject 2.5.0-b32

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* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/pom.xml

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Found in path(s):

* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/javax/inject/Provider.java

* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/javax/inject/package-info.java

* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/javax/inject/Singleton.java
* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/javax/inject/Scope.java
* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/javax/inject/Named.java
* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/javax/inject/Inject.java
* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/javax/inject/Qualifier.java

1.410 apache-httpcomponents-core 4.4.13

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1.411 commons-configuration 1.8

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1.412 postcss-page-break 2.0.0

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1.413 underscore-js 1.13.1

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1.416 split2 0.2.1

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jar/com/amazonaws/util/AwsHostNameUtils.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
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jar/com/amazonaws/util/Classes.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/util/BinaryUtils.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/util/DateUtils.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/ResettableInputStream.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/ReleasableInputStream.java

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jar/com/amazonaws/regions/Regions.java
```

```
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/regions/ServiceAbbreviations.java
```

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```

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```
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jar/com/amazonaws/util/IdempotentUtils.java
```

```
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/apache/client/impl/ConnectionManagerAwareHttpClient.java
```

```
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/protocol/json/SdkStructuredJsonFactory.java
```

```
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/apache/client/impl/ApacheHttpClientFactory.java
```

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/util/CapacityManager.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/util/FakeIOException.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/http/conn/ssl/ShouldClearSslSessionPredicate.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/CanHandleNullCredentials.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/http/apache/client/impl/ApacheConnectionFactory.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/http/timers/package-info.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/http/apache/Utils/ApacheUtils.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/http/apache/client/impl/SdkHttpClient.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/http/apache/request/impl/ApacheHttpRequestFactory.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/handlers/IRequestHandler2.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/internal/DateTimeJsonSerializer.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/log/InternalLogFactory.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/internal/auth/SignerProvider.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-

jar/com/amazonaws/adapters/types/StringToByteBufferAdapter.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/auth/DefaultSignerProvider.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/util/MetadataCache.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/auth/SignerProviderContext.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/util/NullResponseMetadataCache.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/adapters/types/TypeAdapter.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/auth/NoOpSignerProvider.java
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jar/com/amazonaws/annotation/package-info.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/SdkSSLContext.java
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*/
/**
* Interface for providing AWS region information. Implementations are free to use any strategy for
* providing region information.
*/

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jar/com/amazonaws/http/conn/ssl/SdkTLSSocketFactory.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/conn/ssl/TLSProtocol.java

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jar/com/amazonaws/event/ProgressEventFilter.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/profile/ProfilesConfigFileWriter.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/internal/SignerConstants.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/internal/AWS4SignerUtils.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/SdkInputStream.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/event/RequestProgressInputStream.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/event/request/Progress.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/internal/SignerKey.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/util/LengthCheckInputStream.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/DelegateSSLSocket.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/event/ProgressInputStream.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/profile/internal/securitytoken/ProfileCredentialsService.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/profile/ProfilesConfigFile.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/UnreliableTestConfig.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/Releasable.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/profile/internal/securitytoken/STSProfileCredentialsServiceProvider.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/internal/AWS4SignerRequestParams.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/util/UnreliableFilterInputStream.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/event/SyncProgressListener.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/event/request/ProgressSupport.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/profile/internal/Profile.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/event/SDKProgressPublisher.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/SdkSocket.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/event/ProgressTracker.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-

jar/com/amazonaws/auth/profile/internal/securitytoken/STSPProfileCredentialsServiceLoader.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/profile/internal/securitytoken/RoleInfo.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/FIFOCache.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/BoundedLinkedHashMap.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/profile/internal/AbstractProfilesConfigFileScanner.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/profile/package-info.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/SdkSSLSocket.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/event/ResponseProgressInputStream.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/profile/ProfileCredentialsProvider.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/event/DeliveryMode.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/profile/internal/BasicProfileConfigLoader.java
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jar/com/amazonaws/internal/http/IonErrorCodeParser.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/http/CompositeErrorCodeParser.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/http/ErrorCodeParser.java
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*/
/**
* Interface for providing AWS credentials. Implementations are free to use any
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* credentials that don't change, or more complicated implementations, such as
* integrating with existing key management systems.
*/
```

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```
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
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jar/com/amazonaws/protocol/json/StructuredJsonGenerator.java
```

```
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/protocol/json/SdkStructuredPlainJsonFactory.java
```

```
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
```

jar/com/amazonaws/protocol/json/SdkJsonProtocolFactory.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/protocol/json/SdkCborGenerator.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/JsonResponseHandler.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/protocol/json/SdkStructuredCborFactory.java
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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/log/CommonsLogFactory.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/util/ComparableUtils.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/timers/TimeoutThreadPoolBuilder.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/timers/client/ClientExecutionAbortTrackerTaskImpl.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/client/HttpClientFactory.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTracker.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/util/ValidationUtils.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/SystemDefaultDnsResolver.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/log/InternalLog.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/timers/request/HttpRequestTimer.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/SdkInternalList.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-

jar/com/amazonaws/http/timers/client/NoOpClientExecutionAbortTrackerTask.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/util/NumberUtils.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/log/JulLog.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/log/JulLogFactory.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/PredefinedClientConfigurations.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/http/JsonErrorCodeParser.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/timers/client/ClientExecutionTimeoutException.java
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jar/com/amazonaws/util/UriResourcePathUtils.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/util/SdkHttpUtils.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/SdkInternalMap.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/log/CommonsLog.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/DnsResolver.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/SDKGlobalTime.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/DelegateInputStream.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/timers/client/ClientExecutionAbortTrackerTask.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/timers/client/ClientExecutionAbortTaskImpl.java
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jar/com/amazonaws/http/JsonErrorResponseHandler.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/SignableRequest.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/SdkIOUtils.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/timers/client/ClientExecutionTimer.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/client/ConnectionFactory.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/timers/request/NoOpHttpRequestAbortTaskTracker.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/exception/HttpRequestTimeoutException.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/util/Base16Lower.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/conn/ssl/privileged/PrivilegedMasterSecretValidator.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/ReadLimitInfo.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/util/JavaVersionParser.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/SdkMetricsSocket.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/timers/client/ClientExecutionAbortTask.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/handlers/StackedRequestHandler.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/transform/JsonErrorUnmarshaller.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/conn/ssl/MasterSecretValidators.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTrackerImpl.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/conn/SdkConnectionKeepAliveStrategy.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/settings/HttpClientSettings.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/DelegatingDnsResolver.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/DelegateSocket.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/internal/http/JsonErrorMessageParser.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/handlers/HandlerContextKey.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/transform/SimpleTypeJsonUnmarshallers.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/protocol/json/JsonFactory.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/util/ImmutableMapParameter.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/internal/config/SignerConfigJsonHelper.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/internal/config/SignerConfig.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/internal/config/Builder.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/Protocol.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/internal/config/JsonIndex.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/annotation/Beta.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/annotation/ThreadSafe.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/annotation/Immutable.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/annotation/SdkTestInternalApi.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/annotation/GuardedBy.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/annotation/NotThreadSafe.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/annotation/SdkProtectedApi.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/annotation/SdkInternalApi.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/util/JodaTime.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/util/StringMapBuilder.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/internal/EC2CredentialsUtils.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/retry/internal/CredentialsEndpointRetryPolicy.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/internal/ConnectionUtils.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/ContainerCredentialsProvider.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/EC2CredentialsFetcher.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/EC2ContainerCredentialsProviderWrapper.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/ContainerCredentialsRetryPolicy.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/internal/CredentialsEndpointProvider.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/RequestClientOptions.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/jmx/JmxInfoProviderSupport.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/metrics/MetricAdminMBean.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/BasicSessionCredentials.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/AWSSessionCredentials.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/jmx/spi/JmxInfoProvider.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/jmx/spi/SdkMBeanRegistry.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/util/ClassLoaderHelper.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/AWSSessionCredentialsProvider.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/metrics/MetricAdmin.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/util/json/Jackson.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/util/ServiceClientHolderInputStream.java

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- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/protocol/json/SdkIonGenerator.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/regions/InMemoryRegionImpl.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/partitions/PartitionMetadataProvider.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/partitions/model/Region.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/regions/RegionMetadataProvider.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/http/apache/client/impl/CRC32ChecksumResponseInterceptor.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/regions/LegacyRegionXmlMetadataBuilder.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/partitions/PartitionsLoader.java
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- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/regions/RegionImpl.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/regions/LegacyRegionXmlLoadUtils.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/partitions/PartitionRegionImpl.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/partitions/model/CredentialScope.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/regions/InMemoryRegionsProvider.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/regions/RegionMetadataFactory.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/regions/AbstractRegionMetadataProvider.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/partitions/model/Service.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/protocol/json/SdkStructuredIonFactory.java
- * /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/http/apache/SdkProxyRoutePlanner.java

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jar/com/amazonaws/log/InternalLogApi.java

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jar/com/amazonaws/client/ClientExecutionParams.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/protocol/json/JsonErrorResponseMetadata.java

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jar/com/amazonaws/protocol/json/JsonClientMetadata.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/client/AwsSyncClientParams.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/transform/MapUnmarshaller.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/util/StringInputStream.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/retry/PredefinedBackoffStrategies.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/retry/v2/AndRetryCondition.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/util/TimingInfo.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/retry/v2/MaxNumberOfRetriesCondition.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/http/ExecutionContext.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/util/XMLWriter.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/regions/AwsRegionProviderChain.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/protocol/json/SdkJsonGenerator.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/retry/v2/OrRetryCondition.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/profile/path/cred/CredentialsDefaultLocationProvider.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/profile/internal/ProfileAssumeRoleCredentialsProvider.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/SdkBaseException.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/retry/v2/RetryOnExceptionsCondition.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/profile/internal/ProfileKeyConstants.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/util/BasicNameValuePair.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/regions/Region.java
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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/regions/RegionMetadata.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/internal/MetricsInputStream.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/util/Base32Codec.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/util/HttpClientWrappingInputStream.java
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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/waiters/HttpFailureStatusAcceptor.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/policy/conditions/ArnCondition.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/AWS3Signer.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/QueryStringSigner.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/transform/MapEntry.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/metrics/RequestMetricCollector.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/policy/resources/package-info.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/AmazonWebServiceRequest.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/event/ProgressEvent.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/waiters/WaiterExecutionBuilder.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/waiters/MaxAttemptsRetryStrategy.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/handlers/RequestHandler2Adaptor.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/ResponseMetadata.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/PropertiesFileCredentialsProvider.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/http/HttpResponseHandler.java

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* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/RequestSigner.java

* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-jar/com/amazonaws/auth/SignerAsRequestSigner.java

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jar/com/amazonaws/auth/SignatureVersion.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/auth/AWSCredentials.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/http/HttpMethodName.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/transform/LegacyErrorUnmarshaller.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/transform/VoidUnmarshaller.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
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jar/com/amazonaws/auth/SigningAlgorithm.java
* /opt/cola/permits/1135901831_1613627745.41/0/aws-java-sdk-core-1-11-91-sources-1-
jar/com/amazonaws/transform/SimpleTypeUnmarshallers.java
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jar/com/amazonaws/AmazonClientException.java
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jar/com/amazonaws/util/XmlUtils.java
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1.419 minimalistic-crypto-utils 1.0.1

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1.421 jest-leak-detector 25.5.0

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1.422 for-own 0.1.5

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1.423 mime-db 1.50.0

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1.425 @xtuc/ieee754 1.2.0

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1.426 types-uglify-js 3.13.1

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1.427 commons-beanutils 1.9.4

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1.428 joda-time 2.10.8

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1.429 tsconfig-paths 3.11.0

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1.430 ssri 6.0.2

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1.431 jest-message-util 25.5.0

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1.432 levn 0.4.1

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1.433 jsp 2.3.FR

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1.434 jcl-over-slf4j 1.7.36

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* /opt/cola/permits/1288583223_1647358914.34/0/jcl-over-slf4j-1-7-36-jar/META-INF/maven/org.slf4j/jcl-over-slf4j/pom.xml

1.435 metrics-json 4.1.31

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.json

Build-Jdk-Spec: 1.8

Bundle-Description: A set of Jackson modules which provide serializers for most Metrics classes.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Jackson Integration for Metrics

Bundle-SymbolicName: io.dropwizard.metrics.json

Bundle-Version: 4.1.31

Created-By: Apache Maven Bundle Plugin 5.1.4

Export-Package: com.codahale.metrics.json;uses:="com.codahale.metrics, com.fasterxml.jackson.core,com.fasterxml.jackson.databind";version="4.1.31"

Implementation-Title: Jackson Integration for Metrics

Implementation-Version: 4.1.31

Import-Package: com.codahale.metrics;version="[4.1,5)",com.codahale.metrics.health;version="[4.1,5)";resolution:=optional,com.fasterxml.jackson.core;version="[2.9,3)",com.fasterxml.jackson.databind;version="[2.9,3)",com.fasterxml.jackson.databind.module;version="[2.9,3)",com.fasterxml.jackson.databind.ser;version="[2.9,3)",com.fasterxml.jackson.databind.ser.std;version="[2.9,3)"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1313278063_1650562367.15/0/metrics-json-4-1-31-jar/META-INF/MANIFEST.MF

1.436 stylus 0.55.0

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1.437 bootstrap-twitter v2.0.4

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* bootstrap-collapse.js v2.0.4  
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* ===== */

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* /opt/cola/permits/1108766648_1678887049.6341827/0/bootstrap-collapse-js-zip/bootstrap-collapse.js

1.438 opentelemetry-proto 0.11.0

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1.439 whitequark-ipaddr v1.9.1

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1.450 es6-symbol v3.1.3

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1.452 jersey-spring 1.19.4

1.453 write 0.2.1

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1.454 jest-test-result 25.5.0

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* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/auth/BasicAuthRequestInterceptor.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/RetryableException.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/ReflectiveFeign.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/codec/ErrorDecoder.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Logger.java
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* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/RequestInterceptor.java
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* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Target.java

1.456 lodash.istypedarray 3.0.6

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1.457 node-deep-equal 1.1.1

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1.458 aproba 1.2.0

1.459 babel-plugin-syntax-jsx 6.18.0

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1.461 jsx-ast-utils 3.2.1

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1.462 type 1.2.0

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```
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* MIT Licensed  
*/
```

Found in path(s):

```
* /opt/cola/permits/1011004921_1613065589.14/0/component-type-v1-2-0-0-g168462c-1-tar-gz/component-type-cdacb78/test/mocha.js
```

1.463 quartz 2.3.2

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1.464 eslint-plugin-compat 3.13.0

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Martin Richards

23 February 2007

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version 1.2.11, January 15th, 2017

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  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
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* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-

jar/com/nu/art/reflection/tools/ReflectiveTools.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-
jar/com/nu/art/reflection/classLoader/ClassesLoader.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-
jar/com/nu/art/reflection/tools/BidirectionalAction.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-
jar/com/nu/art/reflection/tools/BidirectionalActionImpl.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-
jar/com/nu/art/reflection/classLoader/DirectoryClassLoader.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-
jar/com/nu/art/reflection/exceptions/WrongParameterType.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-
jar/com/nu/art/reflection/classLoader/AbsClassLoader.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-
jar/com/nu/art/reflection/tools/ART_Tools.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-
jar/com/nu/art/reflection/utills/MethodInvocationUtility.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-
jar/com/nu/art/reflection/extractor/Extractor.java

1.476 metrics-servlets 4.1.31

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No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.servlets

Build-Jdk-Spec: 1.8

Bundle-Description: A set of utility servlets for Metrics, allowing you to expose valuable information about your production environment.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Utility Servlets

Bundle-SymbolicName: io.dropwizard.metrics.servlets

Bundle-Version: 4.1.31

Created-By: Apache Maven Bundle Plugin 5.1.4

Export-Package: com.codahale.metrics.servlets;uses:="com.codahale.metrics,com.codahale.metrics.health,com.fasterxml.jackson.databind,javax.servlet,javax.servlet.http";version="4.1.31"

Implementation-Title: Metrics Utility Servlets

Implementation-Version: 4.1.31

Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.http;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.1,5)",com.codahale.metrics.health;version="[4.1,5)",com.codahale.metrics.json;version="[4.1,5)",com.codahale.metrics.jvm;version="[4.1,5)",com.fasterxml.jackson.databind;version="[2.9,3)",com.fasterxml.jackson.databi

nd.util;version="[2.9,3)",com.papertrail.profiler;version="[1.1,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1317858412_1651160238.08/0/metrics-servlets-4-1-31-jar/META-INF/MANIFEST.MF

1.477 whatwg-mimetype 2.3.0

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1.478 imurmurhash 0.1.4

1.479 postcss-logical 3.0.0

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1.480 yaml 1.10.2

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1.481 sindresorhus/is-stream 2.0.1

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1.482 jaxb-core 2.3.1

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1.483 asm 5.0.4

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1.484 node-url 0.11.0

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1.485 jaxb-core 2.2.3 1

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DOMAIN_CONTROLLER_INFO.ByReference dci;'
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1.487 node-worker-farm v1.7.0

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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By Sean Eron Anderson
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1.489 babel-plugin-module-resolver 4.1.0

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1.490 readline2 1.0.1

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=====

Node.js (v0.8 and v0.10) had some bugs and issues with the default [Readline](http://nodejs.org/api/readline.html) module.

This module include fixes seen in later version (0.11-0.12 and iojs) and ease some undesirable behavior one could see using the readline to create interatives prompts. This means `readline2` change some behaviors and as so is **not** meant to be an exact drop-in replacement.

This project is extracted from the core of [Inquirer.js interactive prompt interface](https://github.com/SBoudrias/Inquirer.js) to be available as a standalone module.

Documentation

Installation: `npm install --save readline2`

readline2.createInterface(options); -> {Interface}

Present the same API as [Node.js `readline.createInterface()`](http://nodejs.org/api/readline.html)

Improvements

- Default `options.input` as `process.stdin`
- Default `options.output` as `process.stdout`
- `interface.stdout` is wrapped in a [MuteStream](https://github.com/isaacs/mute-stream)
- Prevent `up` and `down` keys from moving through history inside the readline
- Fix cursor position after a line refresh when the `Interface` prompt contains ANSI colors
- Correctly return the cursor position when faced with implicit line returns

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1049773151_1591362996.83/0/readline2-1-0-1-2-tgz/package/README.md

1.491 gmp 6.1.2

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1.492 system-runtime-serialization-primitives

4.0.0.0

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Martin Richards
23 February 2007

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version 1.2.11, January 15th, 2017

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Microsoft has issued a [Patent Promise for .NET Libraries and Runtime Components](/PATENTS.TXT).

```
<Project Sdk="Microsoft.NET.Sdk">
```

```
<PropertyGroup>
```

```
<OutputType>Exe</OutputType>
```

```
<ApplicationManifest>App.manifest</ApplicationManifest>
```

```
<!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
```

```
<IlrtTestKind>BuildOnly</IlrtTestKind>
```

```
<!-- Test unsupported outside of windows -->
```

```
<TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
```

```
<DisableProjectBuild Condition="$(TargetsUnix) == 'true'">true</DisableProjectBuild>
```

```
<!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
```

```
<UnloadabilityIncompatible>true</UnloadabilityIncompatible>
```

```
</PropertyGroup>
```

```
<ItemGroup>
```

```
<Compile Include="Program.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
```

```
<Compile Include="..\..\ServerContracts/ServerGuids.cs" />
```

```
</ItemGroup>
```

```
<ItemGroup>
```

```
<ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
```

```
<ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
```

```
</ItemGroup>
```

```
</Project>
```

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```

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<https://github.com/mono/mono/blob/29ee4e15806848ff5131c4bdd23ded786f5bc186/mono/benchmark/zipmark.cs>

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Answer author: harp -- <https://stackoverflow.com/users/4525/harpo>

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1.493 tomcat-util-scan 9.0.69

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1.494 object.omit 2.0.1

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1.496 webpack-sources 1.4.3

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1.497 kubernetes-client 4.13.3

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Found in path(s):

* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-jar/META-INF/maven/io.fabric8/kubernetes-client/pom.xml

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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-jar/resource-handler-services.vm

* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-jar/resource-handler.vm

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#

io.fabric8.kubernetes.client.URLFromEnvVarsImpl
io.fabric8.kubernetes.client.URLFromIngressImpl
io.fabric8.kubernetes.client.URLFromNodePortImpl
io.fabric8.kubernetes.client.URLFromClusterIPImpl

Found in path(s):

* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-jar/META-INF/services/io.fabric8.kubernetes.client.ServiceToURLProvider
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#

io.fabric8.kubernetes.client.AppsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.ApiextensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.AuthorizationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V2beta1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V2beta2AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.BatchAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.ExtensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.MetricAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.NetworkAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.PolicyAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.RbacAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.SchedulingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.SettingsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.StorageAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1APIGroupExtensionAdapter

io.fabric8.kubernetes.client.V1ApiextensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1ApiextensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AuthorizationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1AuthorizationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1NetworkAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1NetworkAPIGroupExtensionAdapter

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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-jar/META-INF/services/io.fabric8.kubernetes.client.ExtensionAdapter

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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-jar/io/fabric8/kubernetes/client/dsl/FunctionCallable.java

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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/Tailable.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/TimeTailPrettyLoggable.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/RbacAPIGroupExtensionAdapter.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/Versionable.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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jar/io/fabric8/kubernetes/client/dsl/PortForwardable.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/MetricAPIGroupExtensionAdapter.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-

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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/CodeGen.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
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* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/internal/KubernetesListOperationsImpl.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/internal/apps/v1/RollingUpdater.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/PolicyAPIGroupExtensionAdapter.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/utils/ResourceCompare.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/internal/core/v1/ReplicationControllerRollingUpdater.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/internal/LogWatchCallback.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/RbacAPIGroupClient.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/Execable.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/internal/extensions/v1beta1/ReplicaSetOperationsImpl.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/EditReplacePatchable.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/VisitFromServerGetWatchDeleteRecreateWaitApplicable.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/RequestConfigHolder.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/V1beta1NetworkAPIGroupDSL.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/internal/readiness/Readiness.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/internal/PortForwarder.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/Throwable.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/utils/DeleteAndCreateHelper.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/internal/patchmixins/ObjectMetaMixIn.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-


```
jar/io/fabric8/kubernetes/client/internal/serializationmixins/ReplicationControllerMixIn.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/TtyExecErrorChannelable.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/Recreateable.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/base/CustomResourceDefinitionContext.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/RequestConfigurable.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/dsl/FileSelector.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/V1beta1AdmissionRegistrationAPIGroupExtensionAdapter.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/MetricAPIGroupClient.java
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```
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/lib/FilenameUtils.java
* /opt/cola/permits/1178945077_1625819149.11/0/kubernetes-client-4-13-3-sources-
jar/io/fabric8/kubernetes/client/lib/FileSystem.java
```

1.498 types-babel-template 7.4.1

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1.499 pretty-error 2.1.2

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1.500 on-finished 2.3.0

1.501 jax-ws-api 2.2.8

1.502 node-assert-plus 1.0.0

1.503 cssnano 3.10.0

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1.504 precss 2.0.0

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1.505 jackson-datatype-jdk8 2.13.2

1.505.1 Available under license :

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1.506 prettysize 2.0.0

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1.507 glob-base 0.3.0

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1.508 apache-knox 0.11.0

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```
/**
 * vkBeautify - javascript plugin to pretty-print or minify text in XML, JSON, CSS and SQL formats.
 *
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 * vkiryukhin @ gmail.com
 * http://www.eslinstructor.net/vkbeautify/
 *
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 *
 * Pretty print
```

```

*
* vkbeautify.xml(text [,indent_pattern]);
* vkbeautify.json(text [,indent_pattern]);
* vkbeautify.css(text [,indent_pattern]);
* vkbeautify.sql(text [,indent_pattern]);
*
* @text - String; text to beautify;
* @indent_pattern - Integer | String;
*     Integer: number of white spaces;
*     String: character string to visualize indentation ( can also be a set of white spaces )
* Minify
*
* vkbeautify.xmlmin(text [,preserve_comments]);
* vkbeautify.jsonmin(text);
* vkbeautify.cssmin(text [,preserve_comments]);
* vkbeautify.sqlmin(text);
*
* @text - String; text to minify;
* @preserve_comments - Bool; [optional];
*     Set this flag to true to prevent removing comments from @text ( minxml and mincss functions only. )
*
* Examples:
* vkbeautify.xml(text); // pretty print XML
* vkbeautify.json(text, 4 ); // pretty print JSON
* vkbeautify.css(text, ' . . . '); // pretty print CSS
* vkbeautify.sql(text, '----'); // pretty print SQL
*
* vkbeautify.xmlmin(text, true);// minify XML, preserve comments
* vkbeautify.jsonmin(text);// minify JSON
* vkbeautify.cssmin(text);// minify CSS, remove comments ( default )
* vkbeautify.sqlmin(text);// minify SQL
*
*/

```

Found in path(s):

* /opt/cola/permits/1358560033_1678887788.3904433/0/vkbeautify-js-zip/vkbeautify.js

1.509 node-graceful-fs 4.2.8

1.509.1 Available under license :

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1.510 log4j-api 2.17.1

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1.511 jspglassfish 9.1.1.B60.25.p2

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`/opt/cola/permits/1224358735_1636048536.24/0/blackduck-common-58-0-2-sources-jar/riskreport/web/js/Sortable.js`

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- * /opt/cola/permits/1224358735_1636048536.24/0/blackduck-common-58-0-2-sources-jar/com/synopsys/integration/blackduck/http/client/SignatureScannerClient.java
- * /opt/cola/permits/1224358735_1636048536.24/0/blackduck-common-58-0-2-sources-jar/com/synopsys/integration/blackduck/phonehome/BlackDuckPhoneHomeHelper.java
- * /opt/cola/permits/1224358735_1636048536.24/0/blackduck-common-58-0-2-sources-jar/com/synopsys/integration/blackduck/bdio/model/dependency/ProjectDependency.java
- * /opt/cola/permits/1224358735_1636048536.24/0/blackduck-common-58-0-2-sources-jar/com/synopsys/integration/blackduck/codelocation/CodeLocationCreationRequest.java
- * /opt/cola/permits/1224358735_1636048536.24/0/blackduck-common-58-0-2-sources-jar/com/synopsys/integration/blackduck/configuration/BlackDuckServerConfigBuilder.java
- * /opt/cola/permits/1224358735_1636048536.24/0/blackduck-common-58-0-2-sources-jar/com/synopsys/integration/blackduck/keystore/KeyStoreHelper.java
- * /opt/cola/permits/1224358735_1636048536.24/0/blackduck-common-58-0-2-sources-jar/com/synopsys/integration/blackduck/exception/BlackDuckTimeoutExceededException.java
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1.513 standard-json 1.1.0

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1.514 babel-plugin-transform-runtime 7.19.6

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1.515 damerau-levenshtein 1.0.7

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1.516 babel-code-frame 6.26.0

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1.517 @babel/runtime-corejs3 7.15.4

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1.518 moment/moment 2.29.1

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1.519 postcss-attribute-case-insensitive 4.0.2

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1.520 jackson-dataformat-xml 2.13.1

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1.521 Iodash 4.17.21

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1.522 babel-traverse 6.26.0

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1.523 @webassemblyjs/floating-point-hex-parser 1.9.0

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1.524 node-request-progress 2.0.1

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1.525 mail 1.4

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1.526 co 4.6.0

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1.527 cipher-base 1.0.4

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 * Curve 25519-based cryptography collection.
 *
 * EC Diffie-Hellman (ECDH) based on Curve25519 and digital signatures (EdDSA)
 * based on Ed25519.
 *
 * Copyright (c) 2012 Ron Garret
 * Copyright (c) 2007, 2013, 2014 Michele Bini
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 * under the MIT License.
 *
 * You should have received a copy of the license along with this program.
 */
/**
 * @license almond 0.2.9 Copyright (c) 2011-2014, The Dojo Foundation All Rights Reserved.
 * Available via the MIT or new BSD license.
 * see: http://github.com/jrburke/almond for details
 */
// All Rights Reserved.
```

Found in path(s):

```
* /opt/cola/permits/1130789420_1612812116.2/0/indutny-elliptic-v6-5-4-0-g43ac7f2-tar-gz/indutny-elliptic-956793a/benchmarks/deps/jodid.js
```

No license file was found, but licenses were detected in source scan.

```
/*
Copyright (c) 2013 Pieter Wuille
```

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```
*/
```

Found in path(s):

* /opt/cola/permits/1130789420_1612812116.2/0/indutny-elliptic-v6-5-4-0-g43ac7f2-tar-gz/indutny-elliptic-956793a/benchmarks/deps/secp256k1.js

No license file was found, but licenses were detected in source scan.

```
!function(e){"object"===typeof exports&&"undefined"!==typeof module?module.exports=e():"function"===typeof define&&define.amd?define([],e):("undefined"!==typeof window?window:"undefined"!==typeof global?global:"undefined"!==typeof self?self:this).elliptic=e()}(function(){return function r(f,d,n){function a(t,e){if(!d[t]){if(!f[t]){var i="function"===typeof require&&require;if(!e&&i)return i(t,!0);if(s)return s(t,!0);throw(i=new Error("Cannot find module "+t+"")).code="MODULE_NOT_FOUND",i}i=d[t]={exports:{},f[t][0].call(i.exports,function(e){return a(f[t][1][e]|e)},i,i.exports,r,f,d,n)}return d[t].exports}for(var s="function"===typeof require&&require,e=0;e<n.length;e++)a(n[e]);return a}({1:[function(e,t,i){"use strict";i.version=e("./package.json").version,i.utils=e("./elliptic/utils"),i.rand=e("brorand"),i.curve=e("./elliptic/curve"),i.curves=e("./elliptic/curves"),i.ec=e("./elliptic/ec"),i.eddsa=e("./elliptic/eddsa")},{"./package.json":35,"./elliptic/curve":4,"./elliptic/curves":7,"./elliptic/ec":8,"./elliptic/eddsa":11,"./elliptic/utils":15,brorand:17}],2:[function(e,t,i){"use strict";var r=e("bn.js"),f=e("./utils"),x=f.getNAF,I=f.getJSF,o=f.assert;function d(e,t){this.type=e,this.p=new r(t.p,16),this.red=t.prime?r.red(t.prime):r.mont(this.p),this.zero=new r(0).toRed(this.red),this.one=new r(1).toRed(this.red),this.two=new r(2).toRed(this.red),this.n=t.n&&new r(t.n,16),this.g=t.g&&this.pointFromJSON(t.g,t.gRed),this._wnafT1=new Array(4),this._wnafT2=new Array(4),this._wnafT3=new Array(4),this._wnafT4=new Array(4),this._bitLength=this.n?this.n.bitLength():0;t=this.n&&this.p.div(this.n);!t||0<t.cmpn(100)?this.redN=null:(this._maxwellTrick=!0,this.redN=this.n.toRed(this.red))}function n(e,t){this.curve=e,this.type=t,this.precomputed=null}(t.exports=d).prototype.point=function(){throw new Error("Not implemented")},d.prototype.validate=function(){throw new Error("Not implemented")},d.prototype._fixedNafMul=function(e,t){o(e.precomputed);var i=e._getDoubles(),r=x(t,1,this._bitLength),t=(1<<i.step+1)-(i.step%2===0?2:1);t/=3;for(var f,d=[],n=0;n<r.length;n+=i.step){f=0;for(var a=n+i.step-1;n<=a;a--)=f<<1)+r[a];d.push(f)}for(var s=this.jpoint(null,null,null),c=this.jpoint(null,null,null),h=t;0<h;h--){for(n=0;n<d.length;n++){f=d[n]===h?c=c.mixedAdd(i.points[n]):f===h&&(c=c.mixedAdd(i.points[n].neg()));s=s.add(c)}return s.toP()},d.prototype._wnafMul=function(e,t){for(var i=e._getNAFPoints(4),r=i.wnd,f=i.points,d=x(t,r,this._bitLength),n=this.jpoint(null,null,null),a=d.length-1;0<=a;a--){for(var s=0;0<=a&&0===d[a];a--)=s++;if(0<=a&&s++,n=n.dblp(s),a<0)break;var c=d[a];o(0!==c),n="affine"===e.type?0<c?n.mixedAdd(f[c-1>>1]):n.mixedAdd(f[-c-1>>1].neg()):0<c?n.add(f[c-1>>1]):n.add(f[-c-1>>1].neg())}return"affine"===e.type?n.toP():n},d.prototype._wnafMulAdd=function(e,t,i,r,f){for(var d,n=this._wnafT1,a=this._wnafT2,s=this._wnafT3,c=0,h=0;h<r;h++){var o=(d=t[h])._getNAFPoints(e);n[h]=o.wnd,a[h]=o.points}for(h=r-1;1<=h;h=2){var u=h-1,b=h;if(1===n[u]&&1===n[b]){var l=[t[u],null,null,t[b]];0===t[u].y.cmp(t[b].y)?(l[1]=t[u].add(t[b]),l[2]=t[u].toJ().mixedAdd(t[b].neg())):0===t[u].y.cmp(t[b].y.redNeg())?(l[1]=t[u].toJ().mixedAdd(t[b]),l[2]=t[u].add(t[b].neg())):(l[1]=t[u].toJ().mixedAdd(t[b]),l[2]=t[u].toJ().mixedAdd(t[b].neg()));var p=[-3,-1,-5,-7,0,7,5,1,3],m=I(i[u],i[b]),c=Math.max(m[0].length,c);for(s[u]=new Array(c),s[b]=new Array(c),_=0;_<c;_++){var v=0,m[0][_],g=0,m[1][_],s[u][_]=p[3*(1+v)+(1+g)],s[b][_]=0,a[u]=1}else s[u]=x(i[u],n[u],this._bitLength),s[b]=x(i[b],n[b],this._bitLength),c=Math.max(s[u].length,c),c=Math.max(s[b].length,c)}var y=this.jpoint(null,null,null),M=this._wnafT4;for(h=c;0<=h;h--){for(var w=0;0<=h;){for(var S=!0,_=0;_<r;_++)M[_]=0|s[_][h],0!==(M[_]&&(S=1));if(!S)break;w++,h--
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}if(0<=h&&w++,y=y.dblp(w),h<0)break;for(_=0;_<r;_++){var A=M[_];0!==(A&&(0<A?d=a[_][A-
1]>>1]:A<0&&(d=a[_][-A-
1]>>1].neg()),y="affine"===d.type?y.mixedAdd(d):y.add(d))}for(h=0;h<r;h++)a[h]=null;return
f?y.y.toP(),(d.BasePoint=n).prototype.eq=function(){throw new Error("Not
implemented")},n.prototype.validate=function(){return
this.curve.validate(this)},d.prototype.decodePoint=function(e,t){e=f.toArray(e,t);t=this.p.byteLength();if((4===e[0]
|6===e[0]|7===e[0])&&e.length-1==2*t)return 6===e[0]?o(e[e.length-1]%2==0):7===e[0]&&o(e[e.length-
1]%2==1),this.point(e.slice(1,1+t),e.slice(1+t,1+2*t));if((2===e[0]|3===e[0])&&e.length-1===t)return
this.pointFromX(e.slice(1,1+t),3===e[0]);throw new Error("Unknown point
format")},n.prototype.encodeCompressed=function(e){return
this.encode(e,!0)},n.prototype._encode=function(e){var
t=this.curve.p.byteLength(),i=this.getX().toArray("be",t);return
e?[this.getY().isEven()?2:3].concat(i):[4].concat(i,this.getY().toArray("be",t))},n.prototype.encode=function(e,t){ret
urn f.encode(this._encode(t),e)},n.prototype.precompute=function(e){if(this.precomputed)return this;var
t={ doubles:null,naf:null,beta:null };return
t.naf=this._getNAFPoints(8),t.doubles=this._getDoubles(4,e),t.beta=this._getBeta(),this.precomputed=t,this,n.proto
type._hasDoubles=function(e){if(!this.precomputed)return!1;var
t=this.precomputed.doubles;return!!t&&t.points.length>=Math.ceil((e.bitLength()+1)/t.step)},n.prototype._getDoubl
es=function(e,t){if(this.precomputed&&this.precomputed.doubles)return this.precomputed.doubles;for(var
i=[this],r=this,f=0;f<t;f+=e){for(var
d=0;d<e;d++)r=r.dbl();i.push(r)}return{ step:e,points:i }},n.prototype._getNAFPoints=function(e){if(this.precompute
d&&this.precomputed.naf)return this.precomputed.naf;for(var t=[this],i=(1<<e)-
1,r=1==i?null:this.dbl(),f=1;f<i;f++)t[f]=t[f-
1].add(r);return{ wnd:e,points:t }},n.prototype._getBeta=function(){return
null},n.prototype.dblp=function(e){for(var t=this,i=0;i<e;i++)t=t.dbl();return
t},{ "../utils":15,"bn.js":16}],3:[function(e,t,i){ "use strict";var
r=e("../utils"),d=e("bn.js"),f=e("inherits"),n=e("./base"),a=r.assert;function
s(e){this.twisted=1!==(0|e.a),this.mOneA=this.twisted&&-
1==(0|e.a),this.extended=this.mOneA,n.call(this,"edwards",e),this.a=new
d(e.a,16).umod(this.red.m),this.a=this.a.toRed(this.red),this.c=new
d(e.c,16).toRed(this.red),this.c2=this.c.redSqr(),this.d=new
d(e.d,16).toRed(this.red),this.dd=this.d.redAdd(this.d),a(!this.twisted||0===this.c.fromRed().cmpn(1)),this.oneC=1=
=(0|e.c)}function
c(e,t,i,r,f){n.BasePoint.call(this,e,"projective"),null===t&&null===i&&null===r?(this.x=this.curve.zero,this.y=this.
curve.one,this.z=this.curve.one,this.t=this.curve.zero,this.zOne=!0):(this.x=new d(t,16),this.y=new
d(i,16),this.z=r?new d(r,16):this.curve.one,this.t=f&&new
d(f,16),this.x.red||(this.x=this.x.toRed(this.curve.red)),this.y.red||(this.y=this.y.toRed(this.curve.red)),this.z.red||(this.
z=this.z.toRed(this.curve.red)),this.t&&!this.t.red&&(this.t=this.t.toRed(this.curve.red)),this.zOne=this.z===this.cu
rve.one,this.curve.extended&&this.t&&(this.t=this.x.redMul(this.y),this.zOne||(this.t=this.t.redMul(this.z.redInvm()
))))}f(s,n),(t.exports=s).prototype._mulA=function(e){return
this.mOneA?e.redNeg():this.a.redMul(e)},s.prototype._mulC=function(e){return
this.oneC?e.this.c.redMul(e)},s.prototype.jpoinv=function(e,t,i,r){return
this.point(e,t,i,r)},s.prototype.pointFromX=function(e,t){var i=(e=! (e=new
d(e,16)).red?e.toRed(this.red):e).redSqr(),r=this.c2.redSub(this.a.redMul(i)),i=this.one.redSub(this.c2.redMul(this.d)
.redMul(i)),r=r.redMul(i.redInvm()),i=r.redSqr();if(0!==(i.redSqr().redSub(r).cmp(this.zero))throw new
Error("invalid
point");r=i.fromRed().isOdd();return(t&&!r||t&&r)&&(i=i.redNeg()),this.point(e,i)},s.prototype.pointFromY=funct
ion(e,t){var i=(e=! (e=new

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d(e,16)).red?e.toRed(this.red):e).redSqr(),r=i.redSub(this.c2),i=i.redMul(this.d).redMul(this.c2).redSub(this.a),r=r.re
dMul(i.redInvm());if(0===r.cmp(this.zero)){if(t)throw new Error("invalid point");return
this.point(this.zero,e)}i=r.redSqr();if(0!==i.redSqr().redSub(r).cmp(this.zero))throw new Error("invalid
point");return
i.fromRed().isOdd()!==t&&(i=i.redNeg()),this.point(i,e)},s.prototype.validate=function(e){if(e.isInfinity())return!0;
e.normalize();var
t=e.x.redSqr(),i=e.y.redSqr(),e=t.redMul(this.a).redAdd(i),i=this.c2.redMul(this.one.redAdd(this.d.redMul(t).redMul
(i)));return 0===e.cmp(i)},f(c,n.BasePoint),s.prototype.pointFromJSON=function(e){return
c.fromJSON(this,e)},s.prototype.point=function(e,t,i,r){return new c(this,e,t,i,r)},c.fromJSON=function(e,t){return
new c(e,t[0],t[1],t[2])},c.prototype.inspect=function(){return this.isInfinity()? "<EC Point Infinity>": "<EC Point x:
"+this.x.fromRed().toString(16,2)+" y: "+this.y.fromRed().toString(16,2)+" z:
"+this.z.fromRed().toString(16,2)+">"},c.prototype.isInfinity=function(){return
0===this.x.cmpn(0)&&(0===this.y.cmp(this.z)||this.zOne&&0===this.y.cmp(this.curve.c))},c.prototype._extDbl=f
unction(){var
e=this.x.redSqr(),t=this.y.redSqr(),i=(i=this.z.redSqr()).redIAdd(i),r=this.curve._mulA(e),f=this.x.redAdd(this.y).red
Sqr().redISub(e).redISub(t),d=r.redAdd(t),e=d.redSub(i),i=r.redSub(t),r=f.redMul(e),t=d.redMul(i),i=f.redMul(i),d=
e.redMul(d);return this.curve.point(r,t,d,i)},c.prototype._projDbl=function(){var
e,t,i,r,f,d,n=this.x.redAdd(this.y).redSqr(),a=this.x.redSqr(),s=this.y.redSqr();return
d=this.curve.twisted?(f=(i=this.curve._mulA(a)).redAdd(s),this.zOne?(e=n.redSub(a).redSub(s).redMul(f.redSub(thi
s.curve.two)),t=f.redMul(i.redSub(s)),f.redSqr().redSub(f).redSub(f)):(i=a.redAdd(s),r=this.curve._mulC(this.z).re
dSqr(),d=i.redSub(r).redSub(r),e=this.curve._mulC(n.redISub(i)).redMul(d),t=this.curve._mulC(i).redMul(a.redISub
(s)),i.redMul(d)),this.curve.point(e,t,d)},c.prototype.dbl=function(){return
this.isInfinity()?this:this.curve.extended?this._extDbl():this._projDbl()},c.prototype._extAdd=function(e){var
t=this.y.redSub(this.x).redMul(e.y.redSub(e.x)),i=this.y.redAdd(this.x).redMul(e.y.redAdd(e.x)),r=this.t.redMul(this
.curve.dd).redMul(e.t),f=this.z.redMul(e.z.redAdd(e.z)),d=i.redSub(t),e=f.redSub(r),f=f.redAdd(r),r=i.redAdd(t),i=d.
redMul(e),t=f.redMul(r),r=d.redMul(r),f=e.redMul(f);return
this.curve.point(i,t,f,r)},c.prototype._projAdd=function(e){var
t,i=this.z.redMul(e.z),r=i.redSqr(),f=this.x.redMul(e.x),d=this.y.redMul(e.y),n=this.curve.d.redMul(f).redMul(d),a=r
.redSub(n),n=r.redAdd(n),e=this.x.redAdd(this.y).redMul(e.x.redAdd(e.y)).redISub(f).redISub(d),e=i.redMul(a).red
Mul(e),n=this.curve.twisted?(t=i.redMul(n).redMul(d.redSub(this.curve._mulA(f))),a.redMul(n)):(t=i.redMul(n).red
Mul(d.redSub(f)),this.curve._mulC(a).redMul(n));return this.curve.point(e,t,n)},c.prototype.add=function(e){return
this.isInfinity()?e:e.isInfinity()?this:this.curve.extended?this._extAdd(e):this._projAdd(e)},c.prototype.mul=function
(e){return
this._hasDoubles(e)?this.curve._fixedNafMul(this,e):this.curve._wnafMul(this,e)},c.prototype.mulAdd=function(e,t,
i){return this.curve._wnafMulAdd(1,[this,t],[e,i],2,1)},c.prototype.jmulAdd=function(e,t,i){return
this.curve._wnafMulAdd(1,[this,t],[e,i],2,!0)},c.prototype.normalize=function(){if(this.zOne)return this;var
e=this.z.redInvm();return
this.x=this.x.redMul(e),this.y=this.y.redMul(e),this.t&&(this.t=this.t.redMul(e)),this.z=this.curve.one,this.zOne=!0,t
his},c.prototype.neg=function(){return
this.curve.point(this.x.redNeg(),this.y,this.z,this.t&&this.t.redNeg())},c.prototype.getX=function(){return
this.normalize(),this.x.fromRed()},c.prototype.getY=function(){return
this.normalize(),this.y.fromRed()},c.prototype.eq=function(e){return
this===e||0===this.getX().cmp(e.getX())&&0===this.getY().cmp(e.getY())},c.prototype.eqXTtoP=function(e){var
t=e.toRed(this.curve.red).redMul(this.z);if(0===this.x.cmp(t))return!0;for(var
i=e.clone(),r=this.curve.redN.redMul(this.z);;){if(i.iadd(this.curve.n),0<=i.cmp(this.curve.p))return!1;if(t.redIAdd(r)
,0===this.x.cmp(t))return!0}},c.prototype.toP=c.prototype.normalize,c.prototype.mixedAdd=c.prototype.add},{"/.u
tils":15,"/base":2,"bn.js":16,inherits:32}],4:[function(e,t,i){"use

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strict";i.base=e("./base"),i.short=e("./short"),i.mont=e("./mont"),i.edwards=e("./edwards")},{"/base":2,"/edwards":3
,"/mont":5,"/short":6}],5:[function(e,t,i){"use strict";var
r=e("bn.js"),f=e("inherits"),d=e("./base"),n=e("./utils");function a(e){d.call(this,"mont",e),this.a=new
r(e.a,16).toRed(this.red),this.b=new r(e.b,16).toRed(this.red),this.i4=new
r(4).toRed(this.red).redInvm(),this.two=new
r(2).toRed(this.red),this.a24=this.i4.redMul(this.a.redAdd(this.two))}function
s(e,t,i){d.BasePoint.call(this,e,"projective"),null===t&&null===i?(this.x=this.curve.one,this.z=this.curve.zero):(this
.x=new r(t,16),this.z=new
r(i,16),this.x.red||(this.x=this.x.toRed(this.curve.red)),this.z.red||(this.z=this.z.toRed(this.curve.red)))}f(a,d),(t.export
s=a).prototype.validate=function(e){var
t=e.normalize().x,e=t.redSqr(),t=e.redMul(t).redAdd(e.redMul(this.a)).redAdd(t);return
0===t.redSqr().redSqr().cmp(t)},f(s,d.BasePoint),a.prototype.decodePoint=function(e,t){return
this.point(n.toArray(e,t),1)},a.prototype.point=function(e,t){return new
s(this,e,t)},a.prototype.pointFromJSON=function(e){return
s.fromJSON(this,e)},s.prototype.precompute=function(){},s.prototype._encode=function(){return
this.getX().toArray("be",this.curve.p.byteLength())},s.fromJSON=function(e,t){return new
s(e,t[0],t[1]||e.one)},s.prototype.inspect=function(){return this.isInfinity()?"<EC Point Infinity>":"<EC Point x:
"+this.x.fromRed().toString(16,2)+" z:
"+this.z.fromRed().toString(16,2)+">"},s.prototype.isInfinity=function(){return
0===this.z.cmpn(0)},s.prototype.dbl=function(){var
e=this.x.redAdd(this.z).redSqr(),t=this.x.redSub(this.z).redSqr(),i=e.redSub(t),e=e.redMul(t),i=i.redMul(t).redAdd(th
is.curve.a24.redMul(i));return this.curve.point(e,i)},s.prototype.add=function(){throw new Error("Not supported on
Montgomery curve")},s.prototype.diffAdd=function(e,t){var
i=this.x.redAdd(this.z),r=this.x.redSub(this.z),f=e.x.redAdd(e.z),i=e.x.redSub(e.z).redMul(i),f=f.redMul(r),r=t.z.red
Mul(i.redAdd(f).redSqr()),f=t.x.redMul(i.redSub(f).redSqr());return
this.curve.point(r,f)},s.prototype.mul=function(e){for(var
t=e.clone(),i=this,r=this.curve.point(null,null),f=[];0!==t.cmpn(0);t.iushrn(1))f.push(t.andln(1));for(var d=f.length-
1;0<=d;d--)0===f[d]?(i=i.diffAdd(r,this),r=r.dbl()):r=i.diffAdd(r,this),i=i.dbl());return
r},s.prototype.mulAdd=function(){throw new Error("Not supported on Montgomery
curve")},s.prototype.jumlAdd=function(){throw new Error("Not supported on Montgomery
curve")},s.prototype.eq=function(e){return
0===this.getX().cmp(e.getX())},s.prototype.normalize=function(){return
this.x=this.x.redMul(this.z.redInvm()),this.z=this.curve.one,this},s.prototype.getX=function(){return
this.normalize(),this.x.fromRed()}},{"/utils":15,"/base":2,"bn.js":16,inherits:32}],6:[function(e,t,i){"use strict";var
r=e("./utils"),y=e("bn.js"),f=e("inherits"),d=e("./base"),n=r.assert;function a(e){d.call(this,"short",e),this.a=new
y(e.a,16).toRed(this.red),this.b=new
y(e.b,16).toRed(this.red),this.tinv=this.two.redInvm(),this.zeroA=0===this.a.fromRed().cmpn(0),this.threeA=0===t
his.a.fromRed().sub(this.p).cmpn(-3),this.endo=this._getEndomorphism(e),this._endoWnafT1=new
Array(4),this._endoWnafT2=new Array(4)}function
s(e,t,i,r){d.BasePoint.call(this,e,"affine"),null===t&&null===i?(this.x=null,this.y=null,this.inf=!0):(this.x=new
y(t,16),this.y=new
y(i,16),r&&(this.x.forceRed(this.curve.red),this.y.forceRed(this.curve.red)),this.x.red||(this.x=this.x.toRed(this.curve
.red)),this.y.red||(this.y=this.y.toRed(this.curve.red)),this.inf=!1)}function
c(e,t,i,r){d.BasePoint.call(this,e,"jacobian"),null===t&&null===i&&null===r?(this.x=this.curve.one,this.y=this.cur
ve.one,this.z=new y(0)):this.x=new y(t,16),this.y=new y(i,16),this.z=new
y(r,16),this.x.red||(this.x=this.x.toRed(this.curve.red)),this.y.red||(this.y=this.y.toRed(this.curve.red)),this.z.red||(this
.z=this.z.toRed(this.curve.red)),this.zOne=this.z===this.curve.one}f(a,d),(t.exports=a).prototype._getEndomorphis
m=function(e){var t,i,r;if(this.zeroA&&this.g&&this.n&&1===this.p.modn(3))return i=(e.beta?new

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y(e.beta,16):i=(r=this._getEndoRoots(this.p))[0].cmp(r[1]<0?r[0]:r[1]).toRed(this.red),e.lambda?t=new
y(e.lambda,16):(r=this._getEndoRoots(this.n),0===this.g.mul(r[0]).x.cmp(this.g.x.redMul(i))?t=r[0]:(t=r[1],n(0===t
his.g.mul(t).x.cmp(this.g.x.redMul(i))))),{beta:i,lambda:t,basis:e.basis?e.basis.map(function(e){return{a:new
y(e.a,16),b:new y(e.b,16)}}):this._getEndoBasis(t)}),a.prototype._getEndoRoots=function(e){var
t=e===this.p?this.red.y.mont(e),i=new y(2).toRed(t).redInvm(),e=i.redNeg(),i=new
y(3).toRed(t).redNeg().redSqrt().redMul(i);return[e.redAdd(i).fromRed(),e.redSub(i).fromRed()]},a.prototype._getE
ndoBasis=function(e){for(var
t,i,r,f,d,n,a,s=this.n.ushrn(Math.floor(this.n.bitLength()/2)),c=e,h=this.n.clone(),o=new y(1),u=new y(0),b=new
y(0),l=new y(1),p=0;0!==c.cmpn(0);}var
m=h.div(c),v=h.sub(m.mul(c)),g=b.sub(m.mul(o)),m=l.sub(m.mul(u));if(!r&&v.cmp(s)<0)t=a.neg(),i=o,r=v.neg(),f
=g;else if(r&&2===++p)break;h=c,c=a=v,b=o,o=g,l=u,u=m}d=v.neg(),n=g;e=r.sqrt().add(f.sqrt());return
0<=d.sqrt().add(n.sqrt()).cmp(e)&&(d=t,n=i),r.negative&&(r=r.neg()),f=f.neg(),d.negative&&(d=d.neg(),n=n.neg()),[
{a:r,b:f},{a:d,b:n}],a.prototype._endoSplit=function(e){var
t=this.endo.basis,i=t[0],r=t[1],f=r.b.mul(e).divRound(this.n),d=i.b.neg().mul(e).divRound(this.n),n=f.mul(i.a),t=d.m
ul(r.a),i=f.mul(i.b),r=d.mul(r.b);return{k1:e.sub(n).sub(t),k2:i.add(r).neg()}},a.prototype.pointFromX=function(e,t){
var i=(e!=(e=new
y(e,16)).red?e.toRed(this.red):e).redSqr().redMul(e).redIAdd(e.redMul(this.a)).redIAdd(this.b),r=i.redSqrt();if(0!==(
.redSqr().redSub(i).cmp(this.zero))throw new Error("invalid
point");i=r.fromRed().isOdd();return(t&&!i)!t&&i)&&(r=r.redNeg()),this.point(e,r)},a.prototype.validate=function(
e){if(e.inf)return!0;var t=e.x,i=e.y,e=this.a.redMul(t),e=t.redSqr().redMul(t).redIAdd(e).redIAdd(this.b);return
0===i.redSqr().redISub(e).cmpn(0)},a.prototype._endoWnafMulAdd=function(e,t,i){for(var
r=this._endoWnafT1,f=this._endoWnafT2,d=0;d<e.length;d++){var
n=this._endoSplit(t[d]),a=e[d],s=a._getBeta();n.k1.negative&&(n.k1.ineg(),a=a.neg(!0)),n.k2.negative&&(n.k2.ineg
(),s=s.neg(!0)),r[2*d]=a,r[2*d+1]=s,f[2*d]=n.k1,f[2*d+1]=n.k2}for(var
i=this._wnafMulAdd(1,r,f,2*d,i),c=0;c<2*d;c++)r[c]=null,f[c]=null;return
i},f(s,d.BasePoint),a.prototype.point=function(e,t,i){return new
s(this,e,t,i)},a.prototype.pointFromJSON=function(e,t){return
s.fromJSON(this,e,t)},s.prototype._getBeta=function(){if(this.curve.endo){var
e=this.precomputed;if(e&&e.beta)return e.beta;var
t,i,r=this.curve.point(this.x.redMul(this.curve.endo.beta),this.y);return e&&(t=this.curve,i=function(e){return
t.point(e.x.redMul(t.endo.beta),e.y)}),(e.beta=r).precomputed={beta:null,naf:e.naf&&{wnd:e.naf.wnd,points:e.naf.po
ints.map(i)},doubles:e.doubles&&{step:e.doubles.step,points:e.doubles.points.map(i)}},r}},s.prototype.toJSON=fun
ction(){return
this.precomputed?[this.x,this.y,this.precomputed&&{doubles:this.precomputed.doubles&&{step:this.precomputed.d
oubles.step,points:this.precomputed.doubles.points.slice(1)},naf:this.precomputed.naf&&{wnd:this.precomputed.na
f.wnd,points:this.precomputed.naf.points.slice(1)}]:[this.x,this.y]},s.fromJSON=function(t,e,i){"string"===typeof
e&&(e=JSON.parse(e));var r=t.point(e[0],e[1],i);if(!e[2])return r;function f(e){return
t.point(e[0],e[1],i)}e=e[2];return
r.precomputed={beta:null,doubles:e.doubles&&{step:e.doubles.step,points:[r].concat(e.doubles.points.map(f))},naf:
e.naf&&{wnd:e.naf.wnd,points:[r].concat(e.naf.points.map(f))}},r},s.prototype.inspect=function(){return
this.isInfinity()?<EC Point Infinity>:"<EC Point x: "+this.x.fromRed().toString(16,2)+" y:
"+this.y.fromRed().toString(16,2)+">",s.prototype.isInfinity=function(){return
this.inf},s.prototype.add=function(e){if(this.inf)return e;if(e.inf)return this;if(this.eq(e))return
this.dbl();if(this.neg().eq(e))return this.curve.point(null,null);if(0===this.x.cmp(e.x))return
this.curve.point(null,null);var
t=this.y.redSub(e.y),e=(t=0!==t.cmpn(0)?t.redMul(this.x.redSub(e.x).redInvm()):t).redSqr().redISub(this.x).redISub
(e.x),t=t.redMul(this.x.redSub(e)).redISub(this.y);return
this.curve.point(e,t)},s.prototype.dbl=function(){if(this.inf)return this;var

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e=this.y.redAdd(this.y);if(0===e.cmpn(0))return this.curve.point(null,null);var
t=this.curve.a,i=this.x.redSqr(),e=e.redInvn(),t=i.redAdd(i).redIAdd(i).redIAdd(t).redMul(e),e=t.redSqr().redISub(t
his.x.redAdd(this.x)),t=t.redMul(this.x.redSub(e)).redISub(this.y);return
this.curve.point(e,t),s.prototype.getX=function(){return this.x.fromRed()},s.prototype.getY=function(){return
this.y.fromRed()},s.prototype.mul=function(e){return e=new
y(e,16),this.isInfinity()?this:this._hasDoubles(e)?this.curve._fixedNafMul(this,e):this.curve.endo?this.curve._endoW
nafMulAdd([this],[e]):this.curve._wnafMul(this,e),s.prototype.mulAdd=function(e,t,i){t=[this,t],i=[e,i];return
this.curve.endo?this.curve._endoWnafMulAdd(t,i):this.curve._wnafMulAdd(1,t,i,2)},s.prototype.jmulAdd=function(
e,t,i){t=[this,t],i=[e,i];return
this.curve.endo?this.curve._endoWnafMulAdd(t,i,!0):this.curve._wnafMulAdd(1,t,i,2,!0)},s.prototype.eq=function(e
){return
this===e||this.inf===e.inf&&(this.inf||0===this.x.cmp(e.x)&&0===this.y.cmp(e.y))},s.prototype.neg=function(e){if
(this.inf)return this;var t,i=this.curve.point(this.x,this.y.redNeg());return
e&&this.precomputed&&(t=this.precomputed,e=function(e){return
e.neg()}),i.precomputed={naf:t.naf&&{wnd:t.naf.wnd,points:t.naf.points.map(e)},doubles:t.doubles&&{step:t.doubl
es.step,points:t.doubles.points.map(e)}},i},s.prototype.toJ=function(){return
this.inf?this.curve.jpoint(null,null,null):this.curve.jpoint(this.x,this.y,this.curve.one)},f(c,d.BasePoint),a.prototype.jp
oint=function(e,t,i){return new c(this,e,t,i)},c.prototype.toP=function(){if(this.isInfinity())return
this.curve.point(null,null);var e=this.z.redInvn(),t=e.redSqr(),i=this.x.redMul(t),e=this.y.redMul(t).redMul(e);return
this.curve.point(i,e)},c.prototype.neg=function(){return
this.curve.jpoint(this.x,this.y.redNeg(),this.z)},c.prototype.add=function(e){if(this.isInfinity())return
e;if(e.isInfinity())return this;var
t=e.z.redSqr(),i=this.z.redSqr(),r=this.x.redMul(t),f=e.x.redMul(i),d=this.y.redMul(t.redMul(e.z)),n=e.y.redMul(i.re
dMul(this.z)),t=r.redSub(f),i=d.redSub(n);if(0===t.cmpn(0))return
0!==i.cmpn(0)?this.curve.jpoint(null,null,null):this.dbl();f=t.redSqr(),n=f.redMul(t),r=r.redMul(f),f=i.redSqr().redIA
dd(n).redISub(r).redISub(r),n=i.redMul(r.redISub(f)).redISub(d.redMul(n)),t=this.z.redMul(e.z).redMul(t);return
this.curve.jpoint(f,n,t)},c.prototype.mixedAdd=function(e){if(this.isInfinity())return e.toJ();if(e.isInfinity())return
this;var
t=this.z.redSqr(),i=this.x,r=e.x.redMul(t),f=this.y,d=e.y.redMul(t).redMul(this.z),e=i.redSub(r),t=f.redSub(d);if(0===
=e.cmpn(0))return
0!==t.cmpn(0)?this.curve.jpoint(null,null,null):this.dbl();r=e.redSqr(),d=r.redMul(e),i=i.redMul(r),r=t.redSqr().redI
Add(d).redISub(i).redISub(i),d=t.redMul(i.redISub(r)).redISub(f.redMul(d)),e=this.z.redMul(e);return
this.curve.jpoint(r,d,e)},c.prototype.dblp=function(e){if(0===e)return this;if(this.isInfinity())return this;if(!e)return
this.dbl();if(this.curve.zeroA||this.curve.threeA){for(var t=this,i=0;i<e;i++)t=t.dbl();return t}var
r=this.curve.a,f=this.curve.tinv,d=this.x,n=this.y,a=this.z,s=a.redSqr().redSqr(),c=n.redAdd(n);for(i=0;i<e;i++){var
h=d.redSqr(),o=c.redSqr(),u=o.redSqr(),b=h.redAdd(h).redIAdd(h).redIAdd(r.redMul(s)),h=d.redMul(o),o=b.redSqr
().redISub(h.redAdd(h)),h=h.redISub(o),b=(b=b.redMul(h)).redIAdd(b).redISub(u),h=c.redMul(a);i+1<e&&(s=s.red
Mul(u)),d=o,a=h,c=b}return this.curve.jpoint(d,c.redMul(f),a)},c.prototype.dbl=function(){return
this.isInfinity()?this:this.curve.zeroA?this._zeroDbl():this.curve.threeA?this._threeDbl():this._dbl()},c.prototype._ze
roDbl=function(){var
e,t,i,r,f,d=this.zOne?(i=this.x.redSqr(),e=(r=this.y.redSqr()).redSqr(),f=(f=this.x.redAdd(r).redSqr()).redISub(i).redIS
ub(e)).redIAdd(f),r=(t=i.redAdd(i).redIAdd(i)).redSqr().redISub(f).redISub(f),i=(i=i.e.redIAdd(e)).redIAdd(i)).redI
Add(i),e=r,t=t.redMul(f.redISub(r)).redISub(i),this.y.redAdd(this.y)):f=this.x.redSqr(),d=(r=this.y.redSqr()).redSqr(
),i=(i=this.x.redAdd(r).redSqr()).redISub(f).redISub(d)).redIAdd(i),f=(r=f.redAdd(f).redIAdd(f)).redSqr(),d=(d=(d=d.
redIAdd(d)).redIAdd(d)).redIAdd(d),e=f.redISub(i).redISub(i),t=r.redMul(i.redISub(e)).redISub(d),(d=this.y.redMul
(this.z)).redIAdd(d));return this.curve.jpoint(e,t,d)},c.prototype._threeDbl=function(){var e,t,i,r,f,d,n,a;return
this.zOne?(e=this.x.redSqr(),r=(t=this.y.redSqr()).redSqr(),n=(n=this.x.redAdd(t).redSqr()).redISub(e).redISub(r)).re
dIAdd(n),i=f=(a=e.redAdd(e).redIAdd(e).redIAdd(this.curve.a)).redSqr().redISub(n).redISub(n),d=(d=(d=r.redIAdd

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(r).redIAdd(d)).redIAdd(d),t=a.redMul(n.redISub(f)).redISub(d),e=this.y.redAdd(this.y):(r=this.z.redSqr(),a=this.y
.redSqr(),n=this.x.redMul(a),f=(f=this.x.redSub(r).redMul(this.x.redAdd(r))).redAdd(f).redIAdd(f),n=(d=(d=n.redIA
dd(n)).redIAdd(d)).redAdd(d),i=f.redSqr().redISub(n),e=this.y.redAdd(this.z).redSqr().redISub(a).redISub(r),a=(a=(
a=a.redSqr()).redIAdd(a)).redIAdd(a)).redIAdd(a),t=f.redMul(d.redISub(i)).redISub(a)),this.curve.jpoint(i,t,e)},c.
prototype._dbl=function(){var
e=this.curve.a,t=this.x,i=this.y,r=this.z,f=r.redSqr().redSqr(),d=t.redSqr(),n=i.redSqr(),e=d.redAdd(d).redIAdd(d).re
dIAdd(e.redMul(f)),f=t.redAdd(t),t=(f=f.redIAdd(f)).redMul(n),f=e.redSqr().redISub(t.redAdd(t)),t=t.redISub(f),n=n
.redSqr();n=(n=(n=n.redIAdd(n)).redIAdd(n)).redIAdd(n);n=e.redMul(t).redISub(n),r=i.redAdd(i).redMul(r);return
this.curve.jpoint(f,n,r)},c.prototype.trpl=function(){if(!this.curve.zeroA)return this.dbl().add(this);var
e=this.x.redSqr(),t=this.y.redSqr(),i=this.z.redSqr(),r=t.redSqr(),f=e.redAdd(e).redIAdd(e),d=f.redSqr(),n=this.x.red
Add(t).redSqr().redISub(e).redISub(r),e=(n=(n=(n=n.redIAdd(n)).redAdd(n).redIAdd(n)).redISub(d)).redSqr(),r=r.re
dIAdd(r);r=(r=(r=r.redIAdd(r)).redIAdd(r)).redIAdd(r);d=f.redIAdd(n).redSqr().redISub(d).redISub(e).redISub(r),t=
t.redMul(d);t=(t=t.redIAdd(t)).redIAdd(t);t=this.x.redMul(e).redISub(t);t=(t=t.redIAdd(t)).redIAdd(t);d=this.y.redM
ul(d.redMul(r.redISub(d)).redISub(n.redMul(e)));d=(d=(d=d.redIAdd(d)).redIAdd(d)).redIAdd(d);e=this.z.redAdd(n
).redSqr().redISub(i).redISub(e);return this.curve.jpoint(t,d,e)},c.prototype.mul=function(e,t){return e=new
y(e,t),this.curve._wnafMul(this,e)},c.prototype.eq=function(e){if("affine"===e.type)return
this.eq(e.toJ());if(this===e)return!0;var
t=this.z.redSqr(),i=e.z.redSqr();if(0!==(this.x.redMul(i).redISub(e.x.redMul(t)).cmpn(0))return!1;t=t.redMul(this.z),i
=i.redMul(e.z);return 0===this.y.redMul(i).redISub(e.y.redMul(t)).cmpn(0)},c.prototype.eqXToP=function(e){var
t=this.z.redSqr(),i=e.toRed(this.curve.red).redMul(t);if(0===this.x.cmp(i))return!0;for(var
r=e.clone(),f=this.curve.redN.redMul(t);){if(r.iadd(this.curve.n),0<=r.cmp(this.curve.p))return!1;if(i.redIAdd(f),0=
===this.x.cmp(i))return!0}},c.prototype.inspect=function(){return this.isInfinity()? "<EC JPoint Infinity>": "<EC
JPoint x: "+this.x.toString(16,2)+" y: "+this.y.toString(16,2)+" z:
"+this.z.toString(16,2)+">"},c.prototype.isInfinity=function(){return
0===this.z.cmpn(0)}},{"../utils":15,"./base":2,"bn.js":16,inherits:32}],7:[function(e,t,i){ "use strict";var
r,f=i,i=e("hash.js"),d=e("./curve"),n=e("../utils").assert;function a(e){ "short"===e.type?this.curve=new
d.short(e):"edwards"===e.type?this.curve=new d.edwards(e):this.curve=new
d.mont(e),this.g=this.curve.g,this.n=this.curve.n,this.hash=e.hash,n(this.g.validate(),"Invalid
curve"),n(this.g.mul(this.n).isInfinity(),"Invalid curve, G*N != O")}function
s(t,i){Object.defineProperty(f,t,{ configurable:!0,enumerable:!0,get:function(){var e=new a(i);return
Object.defineProperty(f,t,{ configurable:!0,enumerable:!0,value:e}),e}})f.PresetCurve=a,s("p192",{type:"short",pri
me:"p192",p:"ffffff fffffff fffffff fffffff fffffff fffffff",a:"ffffff fffffff fffffff fffffffe fffffff
ffffffc",b:"64210519 e59c80e7 0fa7e9ab 72243049 feb8deec c146b9b1",n:"ffffff fffffff fffffff 99def836
146bc9b1 b4d22831",hash:i.sha256,gRed:!1,g:["188da80e b03090f6 7cbf20eb 43a18800 f4ff0afd
82ff1012","07192b95 ffc8da78 631011ed 6b24cdd5 73f977a1
1e794811"]}),s("p224",{type:"short",prime:"p224",p:"ffffff fffffff fffffff fffffff 00000000 00000000
00000001",a:"ffffff fffffff fffffff fffffffe fffffff fffffff fffffff",b:"b4050a85 0c04b3ab f5413256 5044b0b7
d7bfd8ba 270b3943 2355ffb4",n:"ffffff fffffff fffffff ffff16a2 e0b8f03e 13dd2945
5c5c2a3d",hash:i.sha256,gRed:!1,g:["b70e0cbd 6bb4bf7f 321390b9 4a03c1d3 56c21122 343280d6
115c1d21","bd376388 b5f723fb 4c22dfe6 cd4375a0 5a074764 44d58199
85007e34"]}),s("p256",{type:"short",prime:null,p:"ffffff 00000001 00000000 00000000 00000000 fffffff fffffff
ffffff",a:"ffffff 00000001 00000000 00000000 00000000 fffffff fffffff fffffffc",b:"5ac635d8 aa3a93e7
b3ebbd55 769886bc 651d06b0 cc53b0f6 3bce3c3e 27d2604b",n:"ffffff 00000000 fffffff fffffff bce6faad
a7179e84 f3b9cac2 fc632551",hash:i.sha256,gRed:!1,g:["6b17d1f2 e12c4247 f8bce6e5 63a440f2 77037d81
2deb33a0 f4a13945 d898c296","4fe342e2 fe1a7f9b 8ee7eb4a 7c0f9e16 2bce3357 6b315ece cbb64068
37bf51f5"]}),s("p384",{type:"short",prime:null,p:"ffffff fffffff fffffff fffffff fffffff fffffff fffffffe fffffff
00000000 00000000 fffffff",a:"ffffff fffffff fffffff fffffff fffffff fffffff fffffffe fffffff 00000000
00000000 fffffffc",b:"b3312fa7 e23ee7e4 988e056b e3f82d19 181d9c6e fe814112 0314088f 5013875a c656398d

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h=c.getX(),o=h.umod(this.n);if(0!==(o.cmpn(0))){s=s.invm(this.n).mul(o.mul(t.getPrivate()).iadd(e));if(0!==(s=s.umod(this.n)).cmpn(0)){h=(c.getY().isOdd()?1:0)|(0!==(h.cmp(o)?2:0));return
r.canonical&&&0<s.cmp(this.nh)&&(s=this.n.sub(s),h^=1),new
l({r:o,s:s,recoveryParam:h}})}}},s.prototype.verify=function(e,t,i,r){e=this._truncateToN(new
u(e,16)),i=this.keyFromPublic(i,r);r=(t=new
l(t,"hex")),r,t=s;if(r.cmpn(1)<0||0<=r.cmp(this.n))return!1;if(t.cmpn(1)<0||0<=t.cmp(this.n))return!1;var
f,t=t.invm(this.n),e=t.mul(e).umod(this.n),t=t.mul(r).umod(this.n);return
this.curve._maxwellTrick?(f=this.g.jmulAdd(e,i.getPublic(),t)).isInfinity()&&f.eqXToP(r):(f=this.g.mulAdd(e,i.getPublic(),t)).isInfinity()&&0===f.getX().umod(this.n).cmp(r)},s.prototype.recoverPubKey=function(e,t,i,r){a((3&i
===i,"The recovery param is more than two bits"),t=new l(t,r);var f=this.n,d=new
u(e),n=t.r,r=t.s,e=1&i,i=i>>1;if(0<=n.cmp(this.curve.p.umod(this.curve.n))&&i)throw new Error("Unable to find
second key
candidate");n=i?this.curve.pointFromX(n.add(this.curve.n),e):this.curve.pointFromX(n,e);t=t.r.invm(f),d=f.sub(d).mul(t).umod(f),f=r.mul(t).umod(f);return
this.g.mulAdd(d,n,f)},s.prototype.getKeyRecoveryParam=function(e,t,i,r){if(null!==(t=new
l(t,r)).recoveryParam)return t.recoveryParam;for(var
f,d=0;d<4;d++){try{f=this.recoverPubKey(e,t,d)}catch(e){continue}if(f.eq(i))return d}throw new Error("Unable to
find valid recovery factor")},{"/curves":7,"/utils":15,"/key":9,"/signature":10,"bn.js":16,brorand:17,"hmac-
drbg":31}],9:[function(e,t,i){"use strict";var r=e("bn.js"),f=e("./utils").assert;function
d(e,t){this.ec=e,this.priv=null,this.pub=null,t.priv&&this._importPrivate(t.priv,t.privEnc),t.pub&&this._importPublic(t.pub,t.pubEnc)}(t.exports=d).fromPublic=function(e,t,i){return t instanceof d?t:new
d(e,{pub:t,pubEnc:i}),d.fromPrivate=function(e,t,i){return t instanceof d?t:new
d(e,{priv:t,privEnc:i}),d.prototype.validate=function(){var e=this.getPublic();return
e.isInfinity()?{result:!1,reason:"Invalid public
key"}:e.validate()?e.mul(this.ec.curve.n).isInfinity()?{result:!0,reason:null}:{result:!1,reason:"Public key * N !=
O"}:{result:!1,reason:"Public key is not a point"}},d.prototype.getPublic=function(e,t){return"string"===typeof
e&&(t=e,e=null),this.pub||(this.pub=this.ec.g.mul(this.priv)),t?this.pub.encode(t):this.pub},d.prototype.getPrivate=
function(e){return"hex"===e?this.priv.toString(16,2):this.priv},d.prototype._importPrivate=function(e,t){this.priv=
new
r(e,t||16),this.priv=this.priv.umod(this.ec.curve.n)},d.prototype._importPublic=function(e,t){if(e.x||e.y)return"mont"
===this.ec.curve.type?f(e.x,"Need x
coordinate"):"short"!==(this.ec.curve.type&&"edwards")!==(this.ec.curve.type||f(e.x&&e.y,"Need both x and y
coordinate")),void(this.pub=this.ec.curve.point(e.x,e.y));this.pub=this.ec.curve.decodePoint(e,t)},d.prototype.derive=
function(e){return e.validate()||f(e.validate()),"public point not
validated"},e.mul(this.priv).getX(),d.prototype.sign=function(e,t,i){return
this.ec.sign(e,this,t,i)},d.prototype.verify=function(e,t){return
this.ec.verify(e,t,this)},d.prototype.inspect=function(){return"<Key priv: "+(this.priv&&this.priv.toString(16,2))+
pub: "+(this.pub&&this.pub.inspect())+" >"},{"/utils":15,"bn.js":16}],10:[function(e,t,i){"use strict";var
f=e("bn.js"),d=e("./utils"),r=d.assert;function n(e,t){if(e instanceof n)return
e;this._importDER(e,t)|(r(e.r&&e.s,"Signature without r or s"),this.r=new f(e.r,16),this.s=new f(e.s,16),void
0===e.recoveryParam?this.recoveryParam=null:this.recoveryParam=e.recoveryParam)}function
a(){this.place=0}function s(e,t){var i=e[t.place++];if(!(128&i))return i;var r=15&i;if(0===r||4<r)return!1;for(var
f=0,d=0,n=t.place;d<r;d++,n++)f<<=8,f|=e[n],f>>=0;return!(f<=127)&&(t.place=n,f)}function c(e){for(var
t=0,i=e.length-1;!e[t]&&!(128&e[t+1])&&t<i;t++);return 0===t?e:e.slice(t)}function
h(e,t){if(t<128)e.push(t);else{var i=1+(Math.log(t)/Math.LN2>>>3);for(e.push(128i);--
i);e.push(t>>>(i<<3)&&255);e.push(t)}}(t.exports=n).prototype._importDER=function(e,t){e=d.toArray(e,t);var
i=new a;if(48!==(e[i.place++]))return!1;var
r=s(e,i);if(!1===r)return!1;if(r+i.place!==(e.length))return!1;if(2!==(e[i.place++]))return!1;t=s(e,i);if(!1===t)return!1;r

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=e.slice(i.place,t+i.place);if(i.place+-t,2!===e[i.place++])return!1;t=s(e,i);if(!1===t)return!1;if(e.length!==(t+i.place)r
eturn!1;i=e.slice(i.place,t+i.place);if(0===r[0]){if(!(128&r[1]))return!1;r=r.slice(1)}if(0===i[0]){if(!(128&i[1]))retu
rn!1;i=i.slice(1)}return this.r=new f(r),this.s=new
f(i),(this.recoveryParam=null)},n.prototype.toDER=function(e){ var
t=this.r.toArray(),i=this.s.toArray();for(128&t[0]&&(t=[0].concat(t)),128&i[0]&&(i=[0].concat(i)),t=c(t),i=c(i);!(i[0
]||128&i[1]);i=i.slice(1);var r=[2];h(r,t.length),(r=r.concat(t)).push(2),h(r,i.length);t=r.concat(i),r=[48];return
h(r,t.length),r=r.concat(t),d.encode(r,e)},{"/utils":15,"bn.js":16}],11:[function(e,t,i){ "use strict";var
r=e("hash.js"),f=e("../curves"),d=e("../utils"),n=d.assert,a=d.parseBytes,s=e("../key"),c=e("../signature");function
h(e){if(n("ed25519"===e,"only tested with ed25519 so far"),!(this instanceof h))return new
h(e);e=f[e].curve,this.curve=e,this.g=e.g,this.g.precompute(e.n.bitLength()+1),this.pointClass=e.point().constructor,t
his.encodingLength=Math.ceil(e.n.bitLength()/8),this.hash=r.sha512}(t.exports=h).prototype.sign=function(e,t){e=a
(e);var
i=this.keyFromSecret(t),r=this.hashInt(i.messagePrefix(),e),f=this.g.mul(r),t=this.encodePoint(f),i=this.hashInt(t,i.pub
bBytes(),e).mul(i.priv()),i=r.add(i).umod(this.curve.n);return
this.makeSignature({R:f,S:i,Rencoded:t}),h.prototype.verify=function(e,t,i){e=a(e),t=this.makeSignature(t);var
r=this.keyFromPublic(i),i=this.hashInt(t.Rencoded(),r.pubBytes(),e),e=this.g.mul(t.S());return
t.R().add(r.pub().mul(i)).eq(e)},h.prototype.hashInt=function(){for(var
e=this.hash(),t=0;t<arguments.length;t++)e.update(arguments[t]);return
d.intFromLE(e.digest()).umod(this.curve.n)},h.prototype.keyFromPublic=function(e){return
s.fromPublic(this,e)},h.prototype.keyFromSecret=function(e){return
s.fromSecret(this,e)},h.prototype.makeSignature=function(e){return e instanceof c?e:new
c(this,e)},h.prototype.encodePoint=function(e){var t=e.getY().toArray("le",this.encodingLength);return
t[this.encodingLength-1]|=e.getX().isOdd()?128:0,t,h.prototype.decodePoint=function(e){var
t=(e=d.parseBytes(e)).length-1,i=e.slice(0,t).concat(-129&e[t]),t=0!=(128&e[t]),i=d.intFromLE(i);return
this.curve.pointFromY(i,t)},h.prototype.encodeInt=function(e){return
e.toArray("le",this.encodingLength)},h.prototype.decodeInt=function(e){return
d.intFromLE(e)},h.prototype.isPoint=function(e){return e instanceof
this.pointClass}},{"/utils":7,"../curves":7,"../utils":15,"/key":12,"/signature":13,"hash.js":19}],12:[function(e,t,i){ "use
strict";var r=e("../utils"),f=r.assert,d=r.parseBytes,e=r.cachedProperty;function
n(e,t){this.eddsa=e,this._secret=d(t.secret),e.isPoint(t.pub)?this._pub=t.pub:this._pubBytes=d(t.pub)}n.fromPublic=f
unction(e,t){return t instanceof n?t:new n(e,{pub:t}),n.fromSecret=function(e,t){return t instanceof n?t:new
n(e,{secret:t}),n.prototype.secret=function(){return this._secret},e(n,"pubBytes",function(){return
this.eddsa.encodePoint(this.pub()}),e(n,"pub",function(){return
this._pubBytes?this.eddsa.decodePoint(this._pubBytes):this.eddsa.g.mul(this.priv())}),e(n,"privBytes",function(){va
r e=this.eddsa,t=this.hash(),i=e.encodingLength-1,e=t.slice(0,e.encodingLength);return
e[0]&=248,e[i]&=127,e[i]=64,e}),e(n,"priv",function(){return
this.eddsa.decodeInt(this.privBytes()}),e(n,"hash",function(){return
this.eddsa.hash().update(this.secret()).digest()}),e(n,"messagePrefix",function(){return
this.hash().slice(this.eddsa.encodingLength)}),n.prototype.sign=function(e){return f(this._secret,"KeyPair can only
verify"),this.eddsa.sign(e,this)},n.prototype.verify=function(e,t){return
this.eddsa.verify(e,t,this)},n.prototype.getSecret=function(e){return f(this._secret,"KeyPair is public
only"),r.encode(this.secret(),e)},n.prototype.getPublic=function(e){return
r.encode(this.pubBytes(),e)},t.exports=n},{"/utils":15}],13:[function(e,t,i){ "use strict";var
r=e("bn.js"),f=e("../utils"),d=f.assert,e=f.cachedProperty,n=f.parseBytes;function
a(e,t){this.eddsa=e,"object"!==typeof
t&&(t=n(t)),Array.isArray(t)&&(t={R:t.slice(0,e.encodingLength),S:t.slice(e.encodingLength)}),d(t.R&&t.S,"Signa
ture without R or S"),e.isPoint(t.R)&&(this._R=t.R),t.S instanceof
r&&(this._S=t.S),this._Rencoded=Array.isArray(t.R)?t.R:t.Rencoded,this._Sencoded=Array.isArray(t.S)?t.S:t.Senc

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oded }e(a,"S",function(){return this.eddsa.decodeInt(this.Sencoded())},e(a,"R",function(){return
this.eddsa.decodePoint(this.Rencoded()}),e(a,"Rencoded",function(){return
this.eddsa.encodePoint(this.R()}),e(a,"Sencoded",function(){return
this.eddsa.encodeInt(this.S()}),a.prototype.toBytes=function(){return
this.Rencoded().concat(this.Sencoded())},a.prototype.toHex=function(){return
f.encode(this.toBytes(),"hex").toUpperCase(),t.exports=a},{../utils:15,"bn.js":16}],14:[function(e,t,i){t.exports={
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d80f448a01c43b1c6d"],["b4f9eaea09b6917619f6ea6a4eb5464efddb58fd45b1ebefcdc1a01d08b47986","39e5c9925b
5a54b07433a4f18c61726f8bb131c012ca542eb24a8ac07200682a"],["d4263dfc3d2df923a0179a48966d30ce84e2515
afc3dccc1b77907792ebcc60e","62dfaf07a0f78feb30e30d6295853ce189e127760ad6cf7fae164e122a208d54"],["484
57524820fa65a4f8d35eb6930857c0032acc0a4a2de422233eeda897612c4","25a748ab367979d98733c38a1fa1c2e7d
c6cc07db2d60a9ae7a76aaa49bd0f77"],["dfeef1881101f2cb11644f3a2afdfc2045e19919152923f367a1767c11cceda
","ecfb7056cf1de042f9420bab396793c0c390bde74b4bbdff16a83ae09a9a7517"],["6d7ef6b17543f8373c573f44e1f3
89835d89bcbc6062ced36c82df83b8fae859","cd450ec335438986dfefa10c57fea9bcc521a0959b2d80bbf74b190dca7
12d10"],["e75605d59102a5a2684500d3b991f2e3f3c88b93225547035af25af66e04541f","f5c54754a8f71ee540b9b4
8728473e314f729ac5308b06938360990e2bfad125"],["eb98660f4c4dffa06a2be453d5020bc99a0c2e60abe388457dd
43fefb1ed620c","6cb9a8876d9cb8520609af3add26cd20a0a7cd8a9411131ce85f44100099223e"],["13e87b027d8514
d35939f2e6892b19922154596941888336dc3563e3b8dba942","fef5a3c68059a6dec5d624114bf1e91aac2b9da568d6
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255dd61c43d94ccc670d0f58f49ae3fa15b96623e5430da0ad6c62b2"],["b268f5ef9ad51e4d78de3a750c2dc89b1e626
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"ff07f3118a9df035e9fad85eb6c7bfe42b02f01ca99ceea3bf7ffdba93c4750d","438136d603e858a3a5c440c38eccbadd
c1d2942114e2eddd4740d098ced1f0d8"],["8d8b9855c7c052a34146fd20ffb658bea4b9f69e0d825ebec16e8c3ce2b52
6a1","cdb559eedc2d79f926baf44fb84ea4d44bcf50fee51d7ceb30e2e7f463036758"],["52db0b5384dfbf05bfa9d472d
7ae26dfe4b851ceca91b1eba54263180da32b63","c3b997d050ee5d423ebaf66a6db9f57b3180c902875679de924b69d
84a7b375"],["e62f9490d3d51da6395efd24e80919cc7d0f29c3f3fa48c6fff543becbd43352","6d89ad7ba4876b0b22c2
ca280c682862f342c8591f1daf5170e07bfd9ccafa7d"],["f730ea2476b399b4957509c88f77d0191afa2ff5cb7b14fd6d8
e7d65aaab1193","ca5ef7d4b231c94c3b15389a5f6311e9daff7bb67b103e9880ef4bff637acaec"],["5098ff1e1d9f14fb
46a210fada6c903fef0fb7b4a1dd1d9ac60a0361800b7a00","9731141d81fc8f8084d37c6e7542006b3ee1b40d60dfe53

62a5b132fd17ddc0"],["32b78c7de9ee512a72895be6b9cbefa6e2f3c4ccce445c96b9f2c81e2778ad58","ee1849f513df
71e32efc3896ee28260c73bb80547ae2275ba497237794c8753c"],["e2cb74fdcc8e9fbcd076eef2a7c72b0ce37d50f082
69dfc074b581550547a4f7","d3aa2ed71c9dd2247a62df062736eb0baddea9e36122d2be8641abcb005cc4a4"],["84384
47566d4d7bedadc299496ab357426009a35f235cb141be0d99cd10ae3a8","c4e1020916980a4da5d01ac5e6ad330734e
f0d7906631c4f2390426b2edd791f"],["4162d488b89402039b584c6fc6c308870587d9c46f660b878ab65c82c711d67
e","67163e903236289f776f22c25fb8a3afc1732f2b84b4e95dbda47ae5a0852649"],["3fad3fa84caf0f34f0f89bfd2dcf5
4fc175d767aec3e50684f3ba4a4bf5f683d","cd1bc7cb6cc407bb2f0ca647c718a730cf71872e7d0d2a53fa20efcdf6182
6"],["674f2600a3007a00568c1a7ce05d0816c1fb84bf1370798f1c69532faeb1a86b","299d21f9413f33b3edf43b25700
4580b70db57da0b182259e09eccc69e0d38a5"],["d32f4da54ade74abb81b815ad1fb3b263d82d6c692714bcff87d29bd
5ee9f08f","f9429e738b8e53b968e99016c059707782e14f4535359d582fc416910b3eea87"],["30e4e670435385556e5
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695a559eb88db7b"],["be2062003c51cc3004682904330e4dee7f3dcd10b01e580bf1971b04d4cad297","62188bc49d6
1e5428573d48a74e1c655b1c61090905682a0d5558ed72dcc9b9c"],["93144423ace3451ed29e0fb9ac2af211cb6e84a6
01df5993c419859fff5df04a","7c10dfb164c3425f5c71a3f9d7992038f106522af72bb9d1d902a6d13037b47c"],["b015
f8044f5fcbdcf21ca26d6c34fb8197829205c7b7d2a7cb66418c157b112c","ab8c1e086d04e813744a655b2df8d5f83b3
cdc6faa3088c1d3aea1454e3a1d5f"],["d5e9e1da649d97d89e4868117a465a3a4f8a18de57a140d36b3f2af341a21b52"
,"4cb04437f391ed73111a13cc1d4dd0db1693465c2240480d8955e8592f27447a"],["d3ae41047dd7ca065dbf8ed77b9
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125ac46"],["463e2763d885f958fc66cdd22800f0a487197d0a82e377b49f80af87c897b065","bfefacdb0e5d0fd7df3a3
11a94de062b26b80c61fbc97508b79992671ef7ca7f"],["7985fdfd127c0567c6f53ec1bb63ec3158e597c40bfe747c83c
ddfc910641917","603c12daf3d9862ef2b25fe1de289aed24ed291e0ec6708703a5bd567f32ed03"],["74a1ad6b5f76e3
9db2dd249410eac7f99e74c59cb83d2d0ed5ff1543da7703e9","cc6157ef18c9c63cd6193d83631bbea0093e0968942e
8c33d5737fd790e0db08"],["30682a50703375f602d416664ba19b7fc9bab42c72747463a71d0896b22f6da3","553e04
f6b018b4fa6c8f39e7f311d3176290d0e0f19ca73f17714d9977a22ff8"],["9e2158f0d7c0d5f26c3791efefa79597654e7
a2b2464f52b1ee6c1347769ef57","712fccdd1b9053f09003a3481fa7762e9ffd7c8ef35a38509e2fbf2629008373"],["17
6e26989a43c9cfeba4029c202538c28172e566e3c4fce7322857f3be327d66","ed8cc9d04b29eb877d270b4878dc43c1
9aefd31f4eee09ee7b47834c1fa4b1c3"],["75d46feaa3771e6e68abb89a13ad747ecf1892393dfc4f1b7004788c50374da
8","9852390a99507679fd0b86fd2b39a868d7efc22151346e1a3ca4726586a6bed8"],["809a20c67d64900ffb698c4c82
5f6d5f2310fb0451c869345b7319f645605721","9e994980d9917e22b76b061927fa04143d096ccc54963e6a5ebfa5f3f
8e286c1"],["1b38903a43f7f114ed4500b4eac7083fdefece1cf29c63528d563446f972c180","4036edc931a60ae889353
f77fd53de4a2708b26b6f5da72ad3394119daf408f9"]]]}}},{}},15:[function(e,t,i){"use strict";var
r=i,f=e("bn.js"),i=e("minimalistic-assert"),e=e("minimalistic-crypto-
utils");r.assert=i,r.toArray=e.toArray,r.zero2=e.zero2,r.toHex=e.toHex,r.encode=e.encode,r.getNAF=function(e,t,i){
var r=new Array(Math.max(e.bitLength(),i)+1);r.fill(0);for(var f=1<<t+1,d=e.clone(),n=0;n<r.length;n++){var
a,s=d.andln(f-1);d.isOdd()?(a=(f>>1)-1<s?(f>>1)-s:s,d.isubn(a)):a=0,r[n]=a,d.iushrn(1)}return
r},r.getJSF=function(e,t){var i=[[],[]];e=e.clone(),t=t.clone();for(var r,f=0,d=0;0<e.cmpn(-f)||0<t.cmpn(-d);){var
n,a=e.andln(3)+f&3,s=t.andln(3)+d&3;3===s&&(s=-1),n=0==(1&(a=3===a?-
1:a))?0:3!==(r=e.andln(7)+f&7)&&5!==(r||2)!==s?a:-
a,i[0].push(n),s=0==(1&s)?0:3!==(r=t.andln(7)+d&7)&&5!==(r||2)!==a?s:-s,i[1].push(s),2*f===n+1&&(f=1-
f),2*d===s+1&&(d=1-d),e.iushrn(1),t.iushrn(1)}return i},r.cachedProperty=function(e,t,i){var
r="_"+t;e.prototype[t]=function(){return void
0!==(this[r]?this[r]:this[r]=i.call(this))},r.parseBytes=function(e){return"string"==typeof
e?r.toArray(e,"hex"):e},r.intFromLE=function(e){return new f(e,"hex","le")},{ "bn.js":16,"minimalistic-
assert":33,"minimalistic-crypto-utils":34}],16:[function(_ ,e,t){!function(e,t){"use strict";function p(e,t){if(!e)throw
new Error(t||"Assertion failed")}function i(e,t){e.super_=t;function i(){}i.prototype=t.prototype,e.prototype=new
i,e.prototype.constructor=e}function m(e,t,i){if(m.isBN(e))return
e;this.negative=0,this.words=null,this.length=0,(this.red=null)!==e&&("le"!==t&&"be"!==t||(i=t,t=10),this._init(e||0
,t||10,i||"be"))}var r;"object"==typeof


```

a=d>>>26,s=67108863&d,c=Math.min(n,t.length-1),h=Math.max(0,n-e.length+1);h<=c;h++){ var o,u=n-
h|0;a+=(o=(0|e.words[u])*(0|t.words[h])+s)/67108864|0,s=67108863&o}i.words[n]=0|s,d=0|a}return
0!:=d?i.words[n]=0|d:i.length--
,i.strip())m.prototype.toString=function(e,t){if(t=0|t|1,16===(e=e|10)||"hex"===e){a="";for(var
i=0,r=0,f=0;f<this.length;f++){ var d=this.words[f],n=(16777215&(d<<i|r)).toString(16),a=0!==(r-d>>>24-
i&16777215)||f!:=this.length-1?u[6-n.length]+n+a:n+a;26<=(i+=2)&&(i-=26,f--
)}for(0!:=r&&(a=r.toString(16)+a);a.length%t!=0;)a="0"+a;return a=0!:=this.negative?"-
"+a:a}if(e===(0|e)&&2<=e&&e<=36){ var s=b[e],c=l[e];for(a="",h=this.clone()).negative=0;!h.isZero();){ var
h,o=h.modn(c).toString(e);a=(h=h.idivn(c)).isZero()?o+a:u[s-
o.length]+o+a}for(this.isZero()&&(a="0"+a);a.length%t!=0;)a="0"+a;return a=0!:=this.negative?"-
"+a:a}p(!1,"Base should be between 2 and 36")},m.prototype.toNumber=function(){ var e=this.words[0];return
2===this.length?e+=67108864*this.words[1]:3===this.length&&1===this.words[2]?e+=4503599627370496+6710
8864*this.words[1]:2<this.length&&p(!1,"Number can only safely store up to 53 bits"),0!:=this.negative?-
e:e},m.prototype.toJSON=function(){return this.toString(16)},m.prototype.toBuffer=function(e,t){return p(void
0!:=r),this.toArrayLike(r,e,t)},m.prototype.toArray=function(e,t){return
this.toArrayLike(Array,e,t)},m.prototype.toArrayLike=function(e,t,i){ var
r=this.byteLength(),f=i||Math.max(1,r);p(r<=f,"byte array longer than desired length"),p(0<f,"Requested array
length <= 0"),this.strip();var d,n,t="le"===t,a=new
e(f),s=this.clone();if(t){ for(n=0;!s.isZero();n++)d=s.andln(255),s.iushrn(8),a[n]=d;for(n<f;n++)a[n]=0} else {for(n=0
;n<f-r;n++)a[n]=0;for(n=0;!s.isZero();n++)d=s.andln(255),s.iushrn(8),a[f-n-1]=d}return
a},Math.clz32?m.prototype._countBits=function(e){return 32-
Math.clz32(e)}:m.prototype._countBits=function(e){ var t=e,e=0;return
4096<=t&&(e+=13,t>>>=13),64<=t&&(e+=7,t>>>=7),8<=t&&(e+=4,t>>>=4),2<=t&&(e+=2,t>>>=2),e+t},m.prot
otype._zeroBits=function(e){if(0===e)return 26;var t=e,e=0;return
0==(8191&t)&&(e+=13,t>>>=13),0==(127&t)&&(e+=7,t>>>=7),0==(15&t)&&(e+=4,t>>>=4),0==(3&t)&&(e+=
2,t>>>=2),0==(1&t)&&e++,e},m.prototype.bitLength=function(){ var e=this.words[this.length-
1],e=this._countBits(e);return 26*(this.length-1)+e},m.prototype.zeroBits=function(){if(this.isZero())return
0;for(var e=0,t=0;t<this.length;t++){ var i=this._zeroBits(this.words[t]);if(e+=i,26!:=i)break}return
e},m.prototype.byteLength=function(){return Math.ceil(this.bitLength()/8)},m.prototype.toTwos=function(e){return
0!:=this.negative?this.abs().inotn(e).iaddn(1):this.clone()},m.prototype.fromTwos=function(e){return this.testn(e-
1)?this.notn(e).iaddn(1).ineg():this.clone()},m.prototype.isNeg=function(){return
0!:=this.negative},m.prototype.neg=function(){return this.clone().ineg()},m.prototype.ineg=function(){return
this.isZero()||(this.negative^=1),this},m.prototype.iuor=function(e){for(this.length<e.length;)this.words[this.length
++] =0;for(var t=0;t<e.length;t++)this.words[t]=this.words[t]|e.words[t];return
this.strip()},m.prototype.iior=function(e){return
p(0==(this.negative|e.negative)),this.iuor(e)},m.prototype.or=function(e){return
this.length>e.length?this.clone().iior(e):e.clone().iior(this)},m.prototype.uor=function(e){return
this.length>e.length?this.clone().iuor(e):e.clone().iuor(this)},m.prototype.iuand=function(e){for(var
t=this.length>e.length?e:this,i=0;i<t.length;i++)this.words[i]=this.words[i]&e.words[i];return
this.length=t.length,this.strip()},m.prototype.iand=function(e){return
p(0==(this.negative|e.negative)),this.iuand(e)},m.prototype.and=function(e){return
this.length>e.length?this.clone().iand(e):e.clone().iand(this)},m.prototype.uand=function(e){return
this.length>e.length?this.clone().iuand(e):e.clone().iuand(this)},m.prototype.iuxor=function(e){for(var
t,i=this.length>e.length?(t=this,e):(t=e,this),r=0;r<i.length;r++)this.words[r]=t.words[r]^i.words[r];if(this!:=t)for(r<
t.length;r++)this.words[r]=t.words[r];return this.length=t.length,this.strip()},m.prototype.ixor=function(e){return
p(0==(this.negative|e.negative)),this.iuxor(e)},m.prototype.xor=function(e){return
this.length>e.length?this.clone().ixor(e):e.clone().ixor(this)},m.prototype.uxor=function(e){return
this.length>e.length?this.clone().iuxor(e):e.clone().iuxor(this)},m.prototype.inotn=function(e){p("number"===typeof

```



```

e&&0<=e);var t=0|Math.ceil(e/26),e=e%26;this._expand(t),0<e&&t--;for(var
i=0;i<t;i++)this.words[i]=67108863&&~this.words[i];return 0<e&&(this.words[i]=~this.words[i]&67108863)>>26-
e),this.strip()),m.prototype.notn=function(e){return
this.clone().inotn(e)},m.prototype.setn=function(e,t){p("number"==typeof e&&0<=e);var i=e/26|0,e=e%26;return
this._expand(1+i),this.words[i]=t?this.words[i]|1<<e:this.words[i]&~(1<<e),this.strip()),m.prototype.iadd=function(
e){var t,i,r;if(0!==(this.negative&&0===e.negative))return
this.negative=0,t=this.isub(e),this.negative^=1,this._normSign();if(0===this.negative&&0!==(e.negative))return
e.negative=0,t=this.isub(e),e.negative=1,t._normSign();r=this.length>e.length?(i=this,e):(i=e,this);for(var
f=0,d=0;d<r.length;d++)t=(0|i.words[d])+(0|r.words[d])+f,this.words[d]=67108863&t,f=t>>>26;for(;0!==(f&&d<i.le
ngth;d++)t=(0|i.words[d])+f,this.words[d]=67108863&t,f=t>>>26;if(this.length=i.length,0!==(f))this.words[this.lengt
h]=f,this.length++;else if(i!==(this))for(;d<i.length;d++)this.words[d]=i.words[d];return
this},m.prototype.add=function(e){var t;return
0!==(e.negative&&0===this.negative?(e.negative=0,t=this.sub(e),e.negative^=1,t):0===e.negative&&0!==(this.negative?
(this.negative=0,t=e.sub(this),this.negative=1,t):this.length>e.length?this.clone().iadd(e):e.clone().iadd(this)),m.
prototype.isub=function(e){if(0!==(e.negative){e.negative=0;var t=this.iadd(e);return
e.negative=1,t._normSign()}if(0!==(this.negative))return
this.negative=0,this.iadd(e),this.negative=1,this._normSign();var i,r,f=this.cmp(e);if(0===f)return
this.negative=0,this.length=1,this.words[0]=0,this.r=0<f?(i=this,e):(i=e,this);for(var
d=0,n=0;n<r.length;n++)d=(t=(0|i.words[n])-
(0|r.words[n])+d)>>26,this.words[n]=67108863&t;for(;0!==(d&&n<i.length;n++)d=(t=(0|i.words[n])+d)>>26,this.w
ords[n]=67108863&t;if(0===d&&n<i.length&&i!==(this))for(;n<i.length;n++)this.words[n]=i.words[n];return
this.length=Math.max(this.length,n),i!==(this&&(this.negative=1),this.strip()),m.prototype.sub=function(e){return
this.clone().isub(e)};var d=function(e,t,i){var
r=e.words,f=t.words,d=i.words,n=0|r[0],a=8191&n,s=n>>>13,c=0|r[1],h=8191&c,o=c>>>13,u=0|r[2],b=8191&u,l=
u>>>13,p=0|r[3],m=8191&p,v=p>>>13,g=0|r[4],y=8191&g,M=g>>>13,w=0|r[5],S=8191&w,_=w>>>13,A=0|r[6],
x=8191&A,I=A>>>13,z=0|r[7],q=8191&z,R=z>>>13,k=0|r[8],P=8191&k,j=k>>>13,N=0|r[9],E=8191&N,B=N>>>
13,L=0|f[0],O=8191&L,F=L>>>13,T=0|f[1],C=8191&T,Z=T>>>13,J=0|f[2],H=8191&J,D=J>>>13,X=0|f[3],K=81
91&X,V=X>>>13,W=0|f[4],U=8191&W,Y=W>>>13,G=0|f[5],Q=8191&G,$=G>>>13,n=0|f[6],c=8191&n,u=n>>
>13,p=0|f[7],g=8191&p,w=p>>>13,A=0|f[8],z=8191&A,k=A>>>13,r=0|f[9],N=8191&r,L=r>>>13;i.negative=e.ne
gative^t.negative,i.length=19;var
X=(0+Math.imul(a,O)|0)+((8191&(J=Math.imul(a,F)+Math.imul(s,O)|0))<<13)|0,ee=(Math.imul(s,F)+(J>>>13)|0)+
(X>>>26)|0;X&=67108863,T=Math.imul(h,O),J=Math.imul(h,F)+Math.imul(o,O)|0,W=Math.imul(o,F);G=(ee+(T+
Math.imul(a,C)|0)|0)+((8191&(J=(J+Math.imul(a,Z)|0)+Math.imul(s,C)|0))<<13)|0;ee=((W+Math.imul(s,Z)|0)+(J>>
>13)|0)+(G>>>26)|0,G&=67108863,T=Math.imul(b,O),J=Math.imul(b,F)+Math.imul(l,O)|0,W=Math.imul(l,F),T=
T+Math.imul(h,C)|0,J=(J+Math.imul(h,Z)|0)+Math.imul(o,C)|0,W=W+Math.imul(o,Z)|0;n=(ee+(T+Math.imul(a,H)|
0)|0)+((8191&(J=(J+Math.imul(a,D)|0)+Math.imul(s,H)|0))<<13)|0;ee=((W+Math.imul(s,D)|0)+(J>>>13)|0)+(n>>>
26)|0,n&=67108863,T=Math.imul(m,O),J=Math.imul(m,F)+Math.imul(v,O)|0,W=Math.imul(v,F),T=T+Math.imul(
b,C)|0,J=(J+Math.imul(b,Z)|0)+Math.imul(l,C)|0,W=W+Math.imul(l,Z)|0,T=T+Math.imul(h,H)|0,J=(J+Math.imul(h
,D)|0)+Math.imul(o,H)|0,W=W+Math.imul(o,D)|0;p=(ee+(T+Math.imul(a,K)|0)|0)+((8191&(J=(J+Math.imul(a,V)|0
)+Math.imul(s,K)|0))<<13)|0;ee=((W+Math.imul(s,V)|0)+(J>>>13)|0)+(p>>>26)|0,p&=67108863,T=Math.imul(y,O
),J=Math.imul(y,F)+Math.imul(M,O)|0,W=Math.imul(M,F),T=T+Math.imul(m,C)|0,J=(J+Math.imul(m,Z)|0)+Math
.imul(v,C)|0,W=W+Math.imul(v,Z)|0,T=T+Math.imul(b,H)|0,J=(J+Math.imul(b,D)|0)+Math.imul(l,H)|0,W=W+Mat
h.imul(l,D)|0,T=T+Math.imul(h,K)|0,J=(J+Math.imul(h,V)|0)+Math.imul(o,K)|0,W=W+Math.imul(o,V)|0;A=(ee+(
T+Math.imul(a,U)|0)|0)+((8191&(J=(J+Math.imul(a,Y)|0)+Math.imul(s,U)|0))<<13)|0;ee=((W+Math.imul(s,Y)|0)+(
J>>>13)|0)+(A>>>26)|0,A&=67108863,T=Math.imul(S,O),J=Math.imul(S,F)+Math.imul(_ ,O)|0,W=Math.imul(_ ,F
),T=T+Math.imul(y,C)|0,J=(J+Math.imul(y,Z)|0)+Math.imul(M,C)|0,W=W+Math.imul(M,Z)|0,T=T+Math.imul(m,
H)|0,J=(J+Math.imul(m,D)|0)+Math.imul(v,H)|0,W=W+Math.imul(v,D)|0,T=T+Math.imul(b,K)|0,J=(J+Math.imul(
b,V)|0)+Math.imul(l,K)|0,W=W+Math.imul(l,V)|0,T=T+Math.imul(h,U)|0,J=(J+Math.imul(h,Y)|0)+Math.imul(o,U)

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|0,W=W+Math.imul(o,Y)|0;f=(ee+(T+Math.imul(a,Q)|0)|0)+((8191&(J=(J+Math.imul(a,\$)|0)+Math.imul(s,Q)|0))<<13)|0);ee=((W+Math.imul(s,\$)|0)+(J>>>13)|0)+(f>>>26)|0,f&=67108863,T=Math.imul(x,O),J=Math.imul(x,F)+Math.imul(I,O)|0,W=Math.imul(I,F),T=T+Math.imul(S,C)|0,J=(J+Math.imul(S,Z)|0)+Math.imul(_,C)|0,W=W+Math.imul(_,Z)|0,T=T+Math.imul(y,H)|0,J=(J+Math.imul(y,D)|0)+Math.imul(M,H)|0,W=W+Math.imul(M,D)|0,T=T+Math.imul(m,K)|0,J=(J+Math.imul(m,V)|0)+Math.imul(v,K)|0,W=W+Math.imul(v,V)|0,T=T+Math.imul(b,U)|0,J=(J+Math.imul(b,Y)|0)+Math.imul(l,U)|0,W=W+Math.imul(l,Y)|0,T=T+Math.imul(h,Q)|0,J=(J+Math.imul(h,\$)|0)+Math.imul(o,Q)|0,W=W+Math.imul(o,\$)|0;r=(ee+(T+Math.imul(a,c)|0)|0)+((8191&(J=(J+Math.imul(a,u)|0)+Math.imul(s,c)|0))<<13)|0);ee=((W+Math.imul(s,u)|0)+(J>>>13)|0)+(r>>>26)|0,r&=67108863,T=Math.imul(q,O),J=Math.imul(q,F)+Math.imul(R,O)|0,W=Math.imul(R,F),T=T+Math.imul(x,C)|0,J=(J+Math.imul(x,Z)|0)+Math.imul(I,C)|0,W=W+Math.imul(I,Z)|0,T=T+Math.imul(S,H)|0,J=(J+Math.imul(S,D)|0)+Math.imul(_,H)|0,W=W+Math.imul(_,D)|0,T=T+Math.imul(y,K)|0,J=(J+Math.imul(y,V)|0)+Math.imul(M,K)|0,W=W+Math.imul(M,V)|0,T=T+Math.imul(m,U)|0,J=(J+Math.imul(m,Y)|0)+Math.imul(v,U)|0,W=W+Math.imul(v,Y)|0,T=T+Math.imul(b,Q)|0,J=(J+Math.imul(b,\$)|0)+Math.imul(l,Q)|0,W=W+Math.imul(l,\$)|0,T=T+Math.imul(h,c)|0,J=(J+Math.imul(h,u)|0)+Math.imul(o,c)|0,W=W+Math.imul(o,u)|0;e=(ee+(T+Math.imul(a,g)|0)|0)+((8191&(J=(J+Math.imul(a,w)|0)+Math.imul(s,g)|0))<<13)|0);ee=((W+Math.imul(s,w)|0)+(J>>>13)|0)+(e>>>26)|0,e&=67108863,T=Math.imul(P,O),J=Math.imul(P,F)+Math.imul(j,O)|0,W=Math.imul(j,F),T=T+Math.imul(q,C)|0,J=(J+Math.imul(q,Z)|0)+Math.imul(R,C)|0,W=W+Math.imul(R,Z)|0,T=T+Math.imul(x,H)|0,J=(J+Math.imul(x,D)|0)+Math.imul(I,H)|0,W=W+Math.imul(I,D)|0,T=T+Math.imul(S,K)|0,J=(J+Math.imul(S,V)|0)+Math.imul(_,K)|0,W=W+Math.imul(_,V)|0,T=T+Math.imul(y,U)|0,J=(J+Math.imul(y,Y)|0)+Math.imul(M,U)|0,W=W+Math.imul(M,Y)|0,T=T+Math.imul(m,Q)|0,J=(J+Math.imul(m,\$)|0)+Math.imul(v,Q)|0,W=W+Math.imul(v,\$)|0,T=T+Math.imul(b,c)|0,J=(J+Math.imul(b,u)|0)+Math.imul(l,c)|0,W=W+Math.imul(l,u)|0,T=T+Math.imul(h,g)|0,J=(J+Math.imul(h,w)|0)+Math.imul(o,g)|0,W=W+Math.imul(o,w)|0;t=(ee+(T+Math.imul(a,z)|0)|0)+((8191&(J=(J+Math.imul(a,k)|0)+Math.imul(s,z)|0))<<13)|0);ee=((W+Math.imul(s,k)|0)+(J>>>13)|0)+(t>>>26)|0,t&=67108863,T=Math.imul(E,O),J=Math.imul(E,F)+Math.imul(B,O)|0,W=Math.imul(B,F),T=T+Math.imul(P,C)|0,J=(J+Math.imul(P,Z)|0)+Math.imul(j,C)|0,W=W+Math.imul(j,Z)|0,T=T+Math.imul(q,H)|0,J=(J+Math.imul(q,D)|0)+Math.imul(R,H)|0,W=W+Math.imul(R,D)|0,T=T+Math.imul(x,K)|0,J=(J+Math.imul(x,V)|0)+Math.imul(I,K)|0,W=W+Math.imul(I,V)|0,T=T+Math.imul(S,U)|0,J=(J+Math.imul(S,Y)|0)+Math.imul(_,U)|0,W=W+Math.imul(_,Y)|0,T=T+Math.imul(y,Q)|0,J=(J+Math.imul(y,\$)|0)+Math.imul(M,Q)|0,W=W+Math.imul(M,\$)|0,T=T+Math.imul(m,c)|0,J=(J+Math.imul(m,u)|0)+Math.imul(v,c)|0,W=W+Math.imul(v,u)|0,T=T+Math.imul(b,g)|0,J=(J+Math.imul(b,w)|0)+Math.imul(l,g)|0,W=W+Math.imul(l,w)|0,T=T+Math.imul(h,z)|0,J=(J+Math.imul(h,k)|0)+Math.imul(o,z)|0,W=W+Math.imul(o,k)|0;a=(ee+(T+Math.imul(a,N)|0)|0)+((8191&(J=(J+Math.imul(a,L)|0)+Math.imul(s,N)|0))<<13)|0);ee=((W+Math.imul(s,L)|0)+(J>>>13)|0)+(a>>>26)|0,a&=67108863,T=Math.imul(E,C),J=Math.imul(E,Z)+Math.imul(B,C)|0,W=Math.imul(B,Z),T=T+Math.imul(P,H)|0,J=(J+Math.imul(P,D)|0)+Math.imul(j,H)|0,W=W+Math.imul(j,D)|0,T=T+Math.imul(q,K)|0,J=(J+Math.imul(q,V)|0)+Math.imul(R,K)|0,W=W+Math.imul(R,V)|0,T=T+Math.imul(x,U)|0,J=(J+Math.imul(x,Y)|0)+Math.imul(I,U)|0,W=W+Math.imul(I,Y)|0,T=T+Math.imul(S,Q)|0,J=(J+Math.imul(S,\$)|0)+Math.imul(_,Q)|0,W=W+Math.imul(_,)\$)|0,T=T+Math.imul(y,c)|0,J=(J+Math.imul(y,u)|0)+Math.imul(M,c)|0,W=W+Math.imul(M,u)|0,T=T+Math.imul(m,g)|0,J=(J+Math.imul(m,w)|0)+Math.imul(v,g)|0,W=W+Math.imul(v,w)|0,T=T+Math.imul(b,z)|0,J=(J+Math.imul(b,k)|0)+Math.imul(l,z)|0,W=W+Math.imul(l,k)|0;h=(ee+(T+Math.imul(h,N)|0)|0)+((8191&(J=(J+Math.imul(h,L)|0)+Math.imul(o,N)|0))<<13)|0);ee=((W+Math.imul(o,L)|0)+(J>>>13)|0)+(h>>>26)|0,h&=67108863,T=Math.imul(E,H),J=Math.imul(E,D)+Math.imul(B,H)|0,W=Math.imul(B,D),T=T+Math.imul(P,K)|0,J=(J+Math.imul(P,V)|0)+Math.imul(j,K)|0,W=W+Math.imul(j,V)|0,T=T+Math.imul(q,U)|0,J=(J+Math.imul(q,Y)|0)+Math.imul(R,U)|0,W=W+Math.imul(R,Y)|0,T=T+Math.imul(x,Q)|0,J=(J+Math.imul(x,\$)|0)+Math.imul(I,Q)|0,W=W+Math.imul(I,\$)|0,T=T+Math.imul(S,c)|0,J=(J+Math.imul(S,u)|0)+Math.imul(_,c)|0,W=W+Math.imul(_,u)|0,T=T+Math.imul(y,g)|0,J=(J+Math.imul(y,w)|0)+Math.imul(M,g)|0,W=W+Math.imul(M,w)|0,T=T+Math.imul(m,z)|0,J=(J+Math.imul(m,k)|0)+Math.imul(v,z)|0,W=W+Math.imul(v,k)|0;b=(ee+(T+Math.imul(b,N)|0)|0)+((8191&(J=(J+Math.imul(b,L)|0)+Math.imul(l,N)|0))<<13)|0);ee=((W+Math.imul(l,L)|0)+(J>>>13)|0)+(b>>>26)|0,b&=67108863,T=Math.imul(E,K),J=Math.imul(E,V)+Math.imul(B,K)|0,W=Math.imul(B,V),T=T+Math.imul(P,U)|0,J=(J+Math.imul(P,Y)|0)+Math.imul(j,U)|0,W=W+Math.imul(j,Y)|0,T=T+Math.imul(q,Q)|0,J=(J+Math.imul(q,\$)|0)+Math.imul(R,Q)|0,W=W+Math.imul(R,\$)|0,T=T+Math.imul(x,c)|0,J=(J+Math.imul(x,u)|0)+Math.imul(I,c)|0,

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W=W+Math.imul(I,u)|0,T=T+Math.imul(S,g)|0,J=(J+Math.imul(S,w)|0)+Math.imul(_,g)|0,W=W+Math.imul(_,w)|0
,T=T+Math.imul(y,z)|0,J=(J+Math.imul(y,k)|0)+Math.imul(M,z)|0,W=W+Math.imul(M,k)|0;m=(ee+(T+Math.imul(
m,N)|0)|0)+((8191&(J=(J+Math.imul(m,L)|0)+Math.imul(v,N)|0))<<13)|0;ee=((W+Math.imul(v,L)|0)+(J>>>13)|0)+
(m>>>26)|0,m&=67108863,T=Math.imul(E,U),J=Math.imul(E,Y)+Math.imul(B,U)|0,W=Math.imul(B,Y),T=T+Ma
th.imul(P,Q)|0,J=(J+Math.imul(P,$)|0)+Math.imul(j,Q)|0,W=W+Math.imul(j,$)|0,T=T+Math.imul(q,c)|0,J=(J+Math
.imul(q,u)|0)+Math.imul(R,c)|0,W=W+Math.imul(R,u)|0,T=T+Math.imul(x,g)|0,J=(J+Math.imul(x,w)|0)+Math.imul
(I,g)|0,W=W+Math.imul(I,w)|0,T=T+Math.imul(S,z)|0,J=(J+Math.imul(S,k)|0)+Math.imul(_,z)|0,W=W+Math.imul(
_,k)|0;y=(ee+(T+Math.imul(y,N)|0)|0)+((8191&(J=(J+Math.imul(y,L)|0)+Math.imul(M,N)|0))<<13)|0;ee=((W+Mat
h.imul(M,L)|0)+(J>>>13)|0)+(y>>>26)|0,y&=67108863,T=Math.imul(E,Q),J=Math.imul(E,$)+Math.imul(B,Q)|0,
W=Math.imul(B,$),T=T+Math.imul(P,c)|0,J=(J+Math.imul(P,u)|0)+Math.imul(j,c)|0,W=W+Math.imul(j,u)|0,T=T+
Math.imul(q,g)|0,J=(J+Math.imul(q,w)|0)+Math.imul(R,g)|0,W=W+Math.imul(R,w)|0,T=T+Math.imul(x,z)|0,J=(J+
Math.imul(x,k)|0)+Math.imul(I,z)|0,W=W+Math.imul(I,k)|0;S=(ee+(T+Math.imul(S,N)|0)|0)+((8191&(J=(J+Math.i
mul(S,L)|0)+Math.imul(_,N)|0))<<13)|0;ee=((W+Math.imul(_,L)|0)+(J>>>13)|0)+(S>>>26)|0,S&=67108863,T=Ma
th.imul(E,c),J=Math.imul(E,u)+Math.imul(B,c)|0,W=Math.imul(B,u),T=T+Math.imul(P,g)|0,J=(J+Math.imul(P,w)
|0)+Math.imul(j,g)|0,W=W+Math.imul(j,w)|0,T=T+Math.imul(q,z)|0,J=(J+Math.imul(q,k)|0)+Math.imul(R,z)|0,W=
W+Math.imul(R,k)|0;x=(ee+(T+Math.imul(x,N)|0)|0)+((8191&(J=(J+Math.imul(x,L)|0)+Math.imul(I,N)|0))<<13)|0
;ee=((W+Math.imul(I,L)|0)+(J>>>13)|0)+(x>>>26)|0,x&=67108863,T=Math.imul(E,g),J=Math.imul(E,w)+Math.i
mul(B,g)|0,W=Math.imul(B,w),T=T+Math.imul(P,z)|0,J=(J+Math.imul(P,k)|0)+Math.imul(j,z)|0,W=W+Math.imul(
j,k)|0;q=(ee+(T+Math.imul(q,N)|0)|0)+((8191&(J=(J+Math.imul(q,L)|0)+Math.imul(R,N)|0))<<13)|0;ee=((W+Math.
imul(R,L)|0)+(J>>>13)|0)+(q>>>26)|0,q&=67108863,T=Math.imul(E,z),J=Math.imul(E,k)+Math.imul(B,z)|0,W=M
ath.imul(B,k);P=(ee+(T+Math.imul(P,N)|0)|0)+((8191&(J=(J+Math.imul(P,L)|0)+Math.imul(j,N)|0))<<13)|0;ee=((
W+Math.imul(j,L)|0)+(J>>>13)|0)+(P>>>26)|0,P&=67108863;N=(ee+Math.imul(E,N)|0)+((8191&(J=Math.imul(E,
L)+Math.imul(B,N)|0))<<13)|0;return
ee=(Math.imul(B,L)+(J>>>13)|0)+(N>>>26)|0,N&=67108863,d[0]=X,d[1]=G,d[2]=n,d[3]=p,d[4]=A,d[5]=f,d[6]=r,
d[7]=e,d[8]=t,d[9]=a,d[10]=h,d[11]=b,d[12]=m,d[13]=y,d[14]=S,d[15]=x,d[16]=q,d[17]=P,d[18]=N,0!=ee&&(d[19
]=ee,i.length++),i};function a(e,t,i){return(new s).mulp(e,t,i)}function
s(e,t){this.x=e,this.y=t}Math.imul||(d=f),m.prototype.mulTo=function(e,t){var
i=this.length+e.length,t=(10===this.length&&10===e.length?d:i<63?f:i<1024?function(e,t,i){i.negative=t.negative^
e.negative,i.length=e.length+t.length;for(var r=0,f=0,d=0;d<i.length-1;d++){for(var
n=f,f=0,a=67108863&r,s=Math.min(d,t.length-1),c=Math.max(0,d-e.length+1);c<=s;c++){var h=d-
c,o=(0|e.words[h])*o|t.words[c],h=67108863&o,a=67108863&(h=h+a|0);f+=n=(n=n+(o/67108864|0)|0)+(h>>>2
6)|0)>>>26,n&=67108863}i.words[d]=a,r=n,n=f}return 0!|=r?i.words[d]=r:i.length--,i.strip():a)(this,e,t);return
t},s.prototype.makeRBT=function(e){for(var t=new Array(e),i=m.prototype._countBits(e)-
1,r=0;r<e;r++)t[r]=this.revBin(r,i,e);return t},s.prototype.revBin=function(e,t,i){if(0===e||e===i-1)return e;for(var
r=0,f=0;f<t;f++)r|=(1&e)<<t-f-1,e>>=1;return r},s.prototype.permute=function(e,t,i,r,f,d){for(var
n=0;n<d;n++)r[n]=t[e[n]],f[n]=i[e[n]]},s.prototype.transform=function(e,t,i,r,f,d){this.permute(d,e,t,i,r,f);for(var
n=1;n<f;n<=1)for(var a=n<<1,s=Math.cos(2*Math.PI/a),c=Math.sin(2*Math.PI/a),h=0;h<f;h+=a)for(var
o=s,u=c,b=0;b<n;b++){var l=i[h+b],p=r[h+b],m=o*(g=i[h+b+n])-
u*(v=r[h+b+n]),v=o*v+u*g,g=m;i[h+b]=l+g,r[h+b]=p+v,i[h+b+n]=l-g,r[h+b+n]=p-v,b!|=a&&(m=s*o-
c*u,u=s*u+c*o,o=m)}},s.prototype.guessLen13b=function(e,t){for(var
e=1&(r=1|Math.max(t,e)),i=0,r=r/2|0;r>>=1)i++;return
1<<i+1+e},s.prototype.conjugate=function(e,t,i){if(!(i<=1))for(var r=0;r<i/2;r++){var f=e[r];e[r]=e[i-r-1],e[i-r-
1]=f,f=t[r],t[r]=-t[i-r-1],t[i-r-1]=-f}},s.prototype.normalize13b=function(e,t){for(var i=0,r=0;r<t/2;r++){var
f=8192*Math.round(e[2*r+1]/t)+Math.round(e[2*r]/t)+i;e[r]=67108863&f,i=f<67108864?f/67108864|0}return
e},s.prototype.convert13b=function(e,t,i,r){for(var
f=0,d=0;d<t;d++)f+=0|e[d],i[2*d]=8191&f,f>>=13,i[2*d+1]=8191&f,f>>=13;for(d=2*t;d<r;++d)i[d]=0;p(0===f
),p(0==(-8192&f))},s.prototype.stub=function(e){for(var t=new Array(e),i=0;i<e;i++)t[i]=0;return
t},s.prototype.mulp=function(e,t,i){var

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r=2*this.guessLen13b(e.length,t.length),f=this.makeRBT(r),d=this.stub(r),n=new Array(r),a=new Array(r),s=new
Array(r),c=new Array(r),h=new Array(r),o=new
Array(r),u=i.words;u.length=r,this.convert13b(e.words,e.length,n,r),this.convert13b(t.words,t.length,c,r),this.transfor
m(n,d,a,s,r,f),this.transform(c,d,h,o,r,f);for(var b=0;b<r;b++){var l=a[b]*h[b]-
s[b]*o[b];s[b]=a[b]*o[b]+s[b]*h[b],a[b]=l}return
this.conjugate(a,s,r),this.transform(a,s,u,d,r,f),this.conjugate(u,d,r),this.normalize13b(u,r),i.negative=e.negative^t.ne
gative,i.length=e.length+t.length,i.strip()),m.prototype.mul=function(e){var t=new m(null);return t.words=new
Array(this.length+e.length),this.mulTo(e,t)},m.prototype.mulf=function(e){var t=new m(null);return t.words=new
Array(this.length+e.length),a(this,e,t)},m.prototype.imul=function(e){return
this.clone().mulTo(e,this)},m.prototype.imuln=function(e){p("number"===typeof e),p(e<67108864);for(var
t=0,i=0;i<this.length;i++){var
r=(0|this.words[i])*e,f=(67108863&r)+(67108863&t);t>=26,t+=r/67108864|0,t+=f>>>26,this.words[i]=67108863
&f}return 0!==(t&&(this.words[i]=t,this.length++),this)},m.prototype.muln=function(e){return
this.clone().imuln(e)},m.prototype.sqr=function(){return this.mul(this)},m.prototype.isqr=function(){return
this.imul(this.clone())},m.prototype.pow=function(e){var t=function(e){for(var t=new
Array(e.bitLength()),i=0;i<t.length;i++){var r=i/26|0,f=i%26;t[i]=(e.words[r]&1<<f)>>>f}return
t}(e);if(0===t.length)return new m(1);for(var i=this,r=0;r<t.length&&0===t[r];r++,i=i.sqr());if(++r<t.length)for(var
f=i.sqr();r<t.length;r++,f=f.sqr())0!==t[r]&&(i=i.mul(f));return
i},m.prototype.iushln=function(e){p("number"===typeof e&&0<=e);var t=e%26,i=(e-t)/26,r=67108863>>>26-
t<<<26-t;if(0!=t){for(var f=0,d=0;d<this.length;d++){var n=this.words[d]&r,a=(0|this.words[d])-
n<<<t;this.words[d]=a|f,f=n>>>26-t}f&&(this.words[d]=f,this.length++)}if(0!=i){for(d=this.length-1;0<=d;d--
)this.words[d+i]=this.words[d];for(d=0;d<i;d++)this.words[d]=0;this.length+=i}return
this.strip()},m.prototype.ishln=function(e){return
p(0===this.negative),this.iushln(e)},m.prototype.iushrn=function(e,t,i){var r;p("number"===typeof
e&&0<=e),r=t?(t-t%26)/26:0;var f=e%26,d=Math.min((e-f)/26,this.length),n=67108863^67108863>>>f<<<f,a=i;if(r
=d,r=Math.max(0,r),a){for(var
s=0;s<d;s++)a.words[s]=this.words[s];a.length=d}if(0!=d)if(this.length>d)for(this.length-
=d,s=0;s<this.length;s++)this.words[s]=this.words[s+d];else this.words[0]=0,this.length=1;for(var
c=0,s=this.length-1;0<=s&&(0===c||r<=s);s--){var h=0|this.words[s];this.words[s]=c<<<26-f|h>>>f,c=h&n}return
a&&0!==(c&&(a.words[a.length++]=c),0===this.length&&(this.words[0]=0,this.length=1),this.strip()),m.prototype.
ishrn=function(e,t,i){return p(0===this.negative),this.iushrn(e,t,i)},m.prototype.shln=function(e){return
this.clone().ishln(e)},m.prototype.ushln=function(e){return
this.clone().iushln(e)},m.prototype.shrn=function(e){return
this.clone().ishrn(e)},m.prototype.ushrn=function(e){return
this.clone().iushrn(e)},m.prototype.testn=function(e){p("number"===typeof e&&0<=e);var t=e%26,e=(e-
t)/26,t=1<<<t;return!(this.length<=e)&&!(this.words[e]&t)},m.prototype.imaskn=function(e){p("number"===typeof
e&&0<=e);var t=e%26,e=(e-t)/26;return p(0===this.negative,"imaskn works only with positive
numbers"),this.length<=e?this:(0!=t&&e++,this.length=Math.min(e,this.length),0!=t&&(t=67108863^67108863>>
>t<<<t,this.words[this.length-1]&t),this.strip())},m.prototype.maskn=function(e){return
this.clone().imaskn(e)},m.prototype.iaddn=function(e){return p("number"===typeof
e),p(e<67108864),e<0?this.isubn(-e):0!==(this.negative?(1===this.length&&(0|this.words[0])<e?(this.words[0]=e-
(0|this.words[0]),this.negative=0):(this.negative=0,this.isubn(e),this.negative=1),this):this._iaddn(e)},m.prototype._i
addn=function(e){this.words[0]+=e;for(var t=0;t<this.length&&67108864<=this.words[t];t++)this.words[t]-
=67108864,t===this.length-1?this.words[t+1]=1:this.words[t+1]++;return
this.length=Math.max(this.length,t+1),this},m.prototype.isubn=function(e){if(p("number"===typeof
e),p(e<67108864),e<0)return this.iaddn(-e);if(0!==(this.negative)return
this.negative=0,this.iaddn(e),this.negative=1,this);if(this.words[0]-
=e,1===this.length&&this.words[0]<0)this.words[0]=-this.words[0],this.negative=1;else for(var

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t=0;t<this.length&&this.words[t]<0;t++)this.words[t]+=67108864,--this.words[t+1];return
this.strip(),m.prototype.addn=function(e){return this.clone().iaddn(e)},m.prototype.subn=function(e){return
this.clone().isubn(e)},m.prototype.iabs=function(){return this.negative=0,this},m.prototype.abs=function(){return
this.clone().iabs()},m.prototype._ishlnsubmul=function(e,t,i){var r,f=e.length+i;this._expand(f);for(var
d=0,n=0;n<e.length;n++){r=(0|this.words[n+i])+d;var a=(0|e.words[n])*t,d=((r=67108863&a)>>26)-
(a/67108864);this.words[n+i]=67108863&r}for(;n<this.length-
i;n++)d=(r=(0|this.words[n+i])+d)>>26,this.words[n+i]=67108863&r;if(0===d)return this.strip();for(p(-
1===d),n=d=0;n<this.length;n++)d=(r=(0|this.words[n])+d)>>26,this.words[n]=67108863&r;return
this.negative=1,this.strip()),m.prototype._wordDiv=function(e,t){var i=this.length-
e.length,r=this.clone(),f=e,d=0|f.words[f.length-1];0!=(i=26-
this._countBits(d))&&(f=f.ushrn(i),r.iushln(i),d=0|f.words[f.length-1]);var n,a=r.length-
f.length;if("mod"!==t){(n=new m(null)).length=1+a,n.words=new Array(n.length);for(var
s=0;s<n.length;s++)n.words[s]=0}e=r.clone()._ishlnsubmul(f,1,a);0===e.negative&&(r=e,n&&(n.words[a]=1));for(
var c=a-1;0<=c;c--){var h=67108864*(0|r.words[f.length+c])+(0|r.words[f.length+c-
1]),h=Math.min(h/d|0,67108863);for(r._ishlnsubmul(f,h,c);0!==r.negative;h--
,r.negative=0,r._ishlnsubmul(f,1,c),r.isZero()||(r.negative^=1);n&&(n.words[c]=h)}return
n&&n.strip(),r.strip(),"div"!==t&&0!=i&&r.iushrn(i),{div:n||null,mod:r}},m.prototype.divmod=function(e,t,i){retur
n p(!e.isZero()),this.isZero()){div:new m(0),mod:new
m(0)}:0!==this.negative&&0===e.negative?(d=this.neg().divmod(e,t),"mod"!==t&&(r=d.div.neg()),"div"!==t&&(f
=d.mod.neg()),i&&0!==f.negative&&f.iadd(e)),{div:r,mod:f}:0===this.negative&&0===e.negative?(d=this.divmod
(e.neg(),t),{div:r="mod"!==t?d.div.neg():r,mod:d.mod}):0!=(this.negative&e.negative)?(d=this.neg().divmod(e.neg(
)),t),"div"!==t&&(f=d.mod.neg()),i&&0!==f.negative&&f.isub(e)),{div:d.div,mod:f}):e.length>this.length||this.cmp(
e)<0){div:new
m(0),mod:this}:1===e.length?"div"===t?{div:this.divn(e.words[0]),mod:null}:"mod"===t?{div:null,mod:new
m(this.modn(e.words[0]))}:{div:this.divn(e.words[0]),mod:new m(this.modn(e.words[0]))}:this._wordDiv(e,t);var
r,f,d,m.prototype.div=function(e){return this.divmod(e,"div",!1).div},m.prototype.mod=function(e){return
this.divmod(e,"mod",!1).mod},m.prototype.umod=function(e){return
this.divmod(e,"mod",!0).mod},m.prototype.divRound=function(e){var t=this.divmod(e);if(t.mod.isZero())return
t.div;var i=0!==t.div.negative?t.mod.isub(e):t.mod,r=e.ushrn(1),e=e.andln(1),r=i.cmp(r);return
r<0||1===e&&0===r?t.div:0!==t.div.negative?t.div.isubn(1):t.div.iaddn(1)},m.prototype.modn=function(e){p(e<=6
7108863);for(var t=(1<<26)%e,i=0,r=this.length-1;0<=r;r--){i=(t*i+(0|this.words[r]))%e;return
i},m.prototype.idivn=function(e){p(e<=67108863);for(var t=0,i=this.length-1;0<=i;i--){var
r=(0|this.words[i])+67108864*t;this.words[i]=r/e|0,t=r%e}return this.strip()},m.prototype.divn=function(e){return
this.clone().idivn(e)},m.prototype.egcd=function(e){p(0===e.negative),p(!e.isZero());for(var
t=this,i=e.clone(),t=0!==t.negative?t.umod(e):t.clone(),r=new m(1),f=new m(0),d=new m(0),n=new
m(1),a=0;t.isEven()&&i.isEven());t.iushrn(1),i.iushrn(1),++a;for(var s=i.clone(),c=t.clone();!t.isZero());{for(var
h=0,o=1;0==(t.words[0]&o)&&h<26;++h,o<=1);if(0<h)for(t.iushrn(h);0<h--
);(r.isOdd()||f.isOdd())&&(r.iadd(s),f.isub(c)),r.iushrn(1),f.iushrn(1);for(var
u=0,b=1;0==(i.words[0]&b)&&u<26;++u,b<=1);if(0<u)for(i.iushrn(u);0<u--
);(d.isOdd()||n.isOdd())&&(d.iadd(s),n.isub(c)),d.iushrn(1),n.iushrn(1);0<=t.cmp(i)?(t.isub(i),r.isub(d),f.isub(n)):
(i.isub(t),d.isub(r),n.isub(f))}return{a:d,b:n,gcd:i.iushln(a)}},m.prototype._invmp=function(e){p(0===e.negative),p(!e.i
sZero());for(var t,i=this,r=e.clone(),i=0!==i.negative?i.umod(e):i.clone(),f=new m(1),d=new
m(0),n=r.clone();0<i.cmpn(1)&&0<r.cmpn(1));{for(var
a=0,s=1;0==(i.words[0]&s)&&a<26;++a,s<=1);if(0<a)for(i.iushrn(a);0<a--
);f.isOdd()&&f.iadd(n),f.iushrn(1);for(var
c=0,h=1;0==(r.words[0]&h)&&c<26;++c,h<=1);if(0<c)for(r.iushrn(c);0<c--
);d.isOdd()&&d.iadd(n),d.iushrn(1);0<=i.cmp(r)?(i.isub(r),f.isub(d)):
(r.isub(i),d.isub(f))}return(t=0===i.cmpn(1)?f:
d).cmpn(0)<0&&t.iadd(e),t},m.prototype.gcd=function(e){if(this.isZero())return e.abs();if(e.isZero())return

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this.abs();var t=this.clone(),i=e.clone();t.negative=0;for(var
r=i.negative=0;t.isEven()&&i.isEven();r++)t.iushrn(1),i.iushrn(1);for(;;){for(;t.isEven());t.iushrn(1);for(;i.isEven());i
.iushrn(1);var f=t.cmp(i);if(f<0)var d=t,t=i,i=d;else if(0===f||0===i.cmpn(1))break;t.isub(i)}return
i.iushln(r)},m.prototype.invm=function(e){return this.egcd(e).a.umod(e)},m.prototype.isEven=function(){return
0==(1&this.words[0])},m.prototype.isOdd=function(){return
1==(1&this.words[0])},m.prototype.andln=function(e){return
this.words[0]&e},m.prototype.bincn=function(e){p("number"===typeof e);var t=e%26,e=(e-
t)/26,t=1<<t;if(this.length<=e)return this._expand(1+e),this.words[e]=t,this;for(var
i=t,r=e;0!==(i&&r<this.length;r++){ var f=0|this.words[r],i=(f+=i)>>>26;f&=67108863,this.words[r]=f}return
0!==(i&&(this.words[r]=i,this.length++),this)},m.prototype.isZero=function(){return
1===this.length&&0===this.words[0]},m.prototype.cmpn=function(e){var t=e<0;return
0===this.negative||t?0===this.negative&&t?1:(this.strip(),e=1<this.length?1:(p((e=t?-e:e)<=67108863,"Number is
too big"),(t=0|this.words[0])===e?0:t<e?-1:1),0!==(this.negative?0|-e:e):-
1)},m.prototype.cmp=function(e){if(0!==(this.negative&&0===e.negative)return-
1;if(0===this.negative&&0!==(e.negative))return 1;e=this.ucmp(e);return 0!==(this.negative?0|-
e:e)},m.prototype.ucmp=function(e){if(this.length>e.length)return 1;if(this.length<e.length)return-1;for(var
t=0,i=this.length-1;0<=i;i--){ var r=0|this.words[i],f=0|e.words[i];if(r!=f){r<f?t=-1:f<r&&(t=1);break }}return
t},m.prototype.gtn=function(e){return 1===this.cmpn(e)},m.prototype.gt=function(e){return
1===this.cmp(e)},m.prototype.gten=function(e){return 0<=this.cmpn(e)},m.prototype.gte=function(e){return
0<=this.cmp(e)},m.prototype.ltn=function(e){return-1===this.cmpn(e)},m.prototype.lt=function(e){return-
1===this.cmp(e)},m.prototype.lten=function(e){return this.cmpn(e)<=0},m.prototype.lte=function(e){return
this.cmp(e)<=0},m.prototype.eqn=function(e){return 0===this.cmpn(e)},m.prototype.eq=function(e){return
0===this.cmp(e)},m.prototype.red=function(e){return new w(e)},m.prototype.toRed=function(e){return p(!this.red,"Already a
number in reduction context"),p(0===this.negative,"red works only with
positives"),e.convertTo(this)._forceRed(e)},m.prototype.fromRed=function(){return p(this.red,"fromRed works
only with numbers in reduction context"),this.red.convertFrom(this)},m.prototype._forceRed=function(e){return
this.red=e,this},m.prototype.forceRed=function(e){return p(!this.red,"Already a number in reduction
context"),this._forceRed(e)},m.prototype.redAdd=function(e){return p(this.red,"redAdd works only with red
numbers"),this.red.add(this,e)},m.prototype.redIAdd=function(e){return p(this.red,"redIAdd works only with red
numbers"),this.red.iadd(this,e)},m.prototype.redSub=function(e){return p(this.red,"redSub works only with red
numbers"),this.red.sub(this,e)},m.prototype.redISub=function(e){return p(this.red,"redISub works only with red
numbers"),this.red.isub(this,e)},m.prototype.redShl=function(e){return p(this.red,"redShl works only with red
numbers"),this.red.shl(this,e)},m.prototype.redMul=function(e){return p(this.red,"redMul works only with red
numbers"),this.red._verify2(this,e),this.red.mul(this,e)},m.prototype.redIMul=function(e){return p(this.red,"redMul
works only with red numbers"),this.red._verify2(this,e),this.red.imul(this,e)},m.prototype.redSqr=function(){return
p(this.red,"redSqr works only with red
numbers"),this.red._verify1(this),this.red.sqr(this)},m.prototype.redISqr=function(){return p(this.red,"redISqr works
only with red numbers"),this.red._verify1(this),this.red.isqr(this)},m.prototype.redSqrt=function(){return
p(this.red,"redSqrt works only with red
numbers"),this.red._verify1(this),this.red.sqrt(this)},m.prototype.redInvm=function(){return p(this.red,"redInvm
works only with red numbers"),this.red._verify1(this),this.red.invm(this)},m.prototype.redNeg=function(){return
p(this.red,"redNeg works only with red
numbers"),this.red._verify1(this),this.red.neg(this)},m.prototype.redPow=function(e){return
p(this.red&&!e.red,"redPow(normalNum)"),this.red._verify1(this),this.red.pow(this,e)};var
c={k256:null,p224:null,p192:null,p25519:null};function h(e,t){this.name=e,this.p=new
m(t,16),this.n=this.p.bitLength(),this.k=new m(1).iushln(this.n).isub(this.p),this.tmp=this._tmp()}function
v(){h.call(this,"k256","ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff
g(){h.call(this,"p224","ffffffff ffffffff ffffffff ffffffff 00000000 00000000 00000001")})function

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y(){h.call(this,"p192","ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff")}function
M(){h.call(this,"25519","7fffffffffffffff ffffffff ffffffff ffffffff ffffffff ffffffff")}function w(e){var
t;"string"===typeof e?(t=m._prime(e),this.m=t.p,this.prime=t):(p(e.gtn(1),"modulus must be greater than
1"),this.m=e,this.prime=null)}function
S(e){w.call(this,e),this.shift=this.m.bitLength(),this.shift%26!=0&&(this.shift+=26-this.shift%26),this.r=new
m(1).iushln(this.shift),this.r2=this.imod(this.r.sqr()),this.rinv=this.r._invmp(this.m),this.minv=this.rinv.mul(this.r).is
ubn(1).div(this.m),this.minv=this.minv.umod(this.r),this.minv=this.r.sub(this.minv)}h.prototype._tmp=function(){v
ar e=new m(null);return e.words=new Array(Math.ceil(this.n/13)),e,h.prototype.ireduce=function(e){for(var
t,i=e;this.split(i,this.tmp),t=(i=(i=this.imulK(i)).iadd(this.tmp)).bitLength(),t>this.n);e=t<this.n?-
1:i.ucmp(this.p);return 0===e?(i.words[0]=0,i.length=1):0<e?i.isub(this.p):void
0!==(i.strip?i.strip():i._strip(),i),h.prototype.split=function(e,t){e.iushrn(this.n,0,t)},h.prototype.imulK=function(e){r
eturn e.imul(this.k)},i(v,h),v.prototype.split=function(e,t){for(var
i=Math.min(e.length,9),r=0;r<i;r++)t.words[r]=e.words[r];if(t.length=i,e.length<=9)return
e.words[0]=0,void(e.length=1);var f=e.words[9];for(t.words[t.length++]=4194303&&f,r=10;r<e.length;r++){var
d=0|e.words[r];e.words[r-10]=(4194303&&d)<<4|f>>>22,f=d|f>>>22,0===e.words[r-
10]=f)&&10<e.length?e.length-=10:e.length-
=9},v.prototype.imulK=function(e){e.words[e.length]=0,e.words[e.length+1]=0,e.length+=2;for(var
t=0,i=0;i<e.length;i++){var r=0|e.words[i];t+=977*r,e.words[i]=67108863&&t,t=64*r+(t/67108864|0)}return
0===e.words[e.length-1]&&(e.length--,0===e.words[e.length-1]&&e.length--
),e},i(g,h),i(y,h),i(M,h),M.prototype.imulK=function(e){for(var t=0,i=0;i<e.length;i++){var
r=19*(0|e.words[i])+t,f=67108863&&r;r>>>=26,e.words[i]=f,t=r}return
0!==(t&&(e.words[e.length++]=t),e),m._prime=function(e){if(c[e])return c[e];var t;if("k256"===e)t=new v;else
if("p224"===e)t=new g;else if("p192"===e)t=new y;else if("p25519"!==e)throw new Error("Unknown prime
"+e);t=new M}return c[e]=t},w.prototype._verify1=function(e){p(0===e.negative,"red works only with
positives"),p(e.red,"red works only with red
numbers")},w.prototype._verify2=function(e,t){p(0==(e.negative|t.negative),"red works only with
positives"),p(e.red&&e.red===t.red,"red works only with red
numbers")},w.prototype.imod=function(e){return(this.prime?this.prime.ireduce(e):e.umod(this.m))._forceRed(this)}
,w.prototype.neg=function(e){return
e.isZero()?e.clone():this.m.sub(e)._forceRed(this)},w.prototype.add=function(e,t){this._verify2(e,t);t=e.add(t);return
0<=t.cmp(this.m)&&t.isub(this.m),t._forceRed(this)},w.prototype.iadd=function(e,t){this._verify2(e,t);t=e.iadd(t);re
turn 0<=t.cmp(this.m)&&t.isub(this.m),t},w.prototype.sub=function(e,t){this._verify2(e,t);t=e.sub(t);return
t.cmpn(0)<0&&t.iadd(this.m),t._forceRed(this)},w.prototype.isub=function(e,t){this._verify2(e,t);t=e.isub(t);return
t.cmpn(0)<0&&t.iadd(this.m),t},w.prototype.shl=function(e,t){return
this._verify1(e),this.imod(e.ushln(t))},w.prototype.imul=function(e,t){return
this._verify2(e,t),this.imod(e.imul(t))},w.prototype.mul=function(e,t){return
this._verify2(e,t),this.imod(e.mul(t))},w.prototype.isqr=function(e){return
this.imul(e,e.clone())},w.prototype.sqr=function(e){return
this.mul(e,e)},w.prototype.sqrt=function(e){if(e.isZero())return e.clone();var
t=this.m.andln(3);if(p(t%2==1),3===t){t=this.m.add(new m(1)).iushrn(2);return this.pow(e,t)}for(var
i=this.m.subn(1),r=0;!i.isZero()&&0===i.andln(1);r++,i.iushrn(1);p(!i.isZero());for(var f=new
m(1).toRed(this),d=f.redNeg(),n=this.m.subn(1).iushrn(1),a=new
m(2*(a=this.m.bitLength()*a).toRed(this);0!==(this.pow(a,n).cmp(d));a.redIAdd(d);for(var
s=this.pow(a,i),c=this.pow(e,i.addn(1).iushrn(1)),h=this.pow(e,i),o=r;0!==(h.cmp(f));){for(var
u=h,b=0;0!==(u.cmp(f);b++)u=u.redSqr();p(b<o);var l=this.pow(s,new m(1).iushln(o-b-
1)),c=c.redMul(l),s=l.redSqr(),h=h.redMul(s),o=b}return
c},w.prototype.invmp=function(e){e=e._invmp(this.m);return
0!==(e.negative?(e.negative=0,this.imod(e).redNeg()):this.imod(e)),w.prototype.pow=function(e,t){if(t.isZero())retu

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rn new m(1).toRed(this);if(0===t.cmpn(1))return e.clone();var i=new Array(16);i[0]=new
m(1).toRed(this),i[1]=e;for(var r=2;r<i.length;r++)i[r]=this.mul(i[r-1],e);var
f=i[0],d=0,n=0,a=t.bitLength()%26;for(0===a&&(a=26),r=t.length-1;0<=r;r--){for(var s=t.words[r],c=a-1;0<=c;c--
){var
h=s>>c&1;f!==(i[0]&&(f=this.sqr(f)),0)!=(h||0)!==(d<<=1,d|h,(4===++n||0===r&&0===c)&&(f=this.mul(f,i[d]),d
=n=0)):n=0;a=26}return f},w.prototype.convertTo=function(e){var t=e.umod(this.m);return
t===e?t.clone():t},w.prototype.convertFrom=function(e){e=e.clone();return
e.red=null,e},m.mont=function(e){return new S(e)},i(S,w),S.prototype.convertTo=function(e){return
this.imod(e.usln(this.shift))},S.prototype.convertFrom=function(e){e=this.imod(e.mul(this.rinv));return
e.red=null,e},S.prototype.imul=function(e,t){if(e.isZero()||t.isZero())return
e.words[0]=0,e.length=1,e;e=e.imul(t),t=e.maskn(this.shift).mul(this.minv).imaskn(this.shift).mul(this.m),e=e.isub(t
).iushrn(this.shift),t=e;return
0<=e.cmp(this.m)?t=e.isub(this.m):e.cmpn(0)<0&&(t=e.iadd(this.m)),t._forceRed(this)},S.prototype.mul=function(
e,t){if(e.isZero()||t.isZero())return new
m(0)._forceRed(this);e=e.mul(t),t=e.maskn(this.shift).mul(this.minv).imaskn(this.shift).mul(this.m),e=e.isub(t).iushr
n(this.shift),t=e;return
0<=e.cmp(this.m)?t=e.isub(this.m):e.cmpn(0)<0&&(t=e.iadd(this.m)),t._forceRed(this)},S.prototype.invm=function
(e){return this.imod(e._invmp(this.m).mul(this.r2))._forceRed(this)}(void
0===e||e,this)},{buffer:18}],17:[function(e,t,i){var r;function
f(e){this.rand=e}if(t.exports=function(e){return(r=r||new
f(null)).generate(e)},(t.exports.Rand=f).prototype.generate=function(e){return
this._rand(e)},f.prototype._rand=function(e){if(this.rand.getBytes)return this.rand.getBytes(e);for(var t=new
Uint8Array(e),i=0;i<t.length;i++)t[i]=this.rand.getByte();return t},"object"===typeof
self)self.crypto&&self.crypto.getRandomValues?f.prototype._rand=function(e){e=new Uint8Array(e);return
self.crypto.getRandomValues(e,e):self.msCrypto&&self.msCrypto.getRandomValues?f.prototype._rand=function(
e){e=new Uint8Array(e);return self.msCrypto.getRandomValues(e,e):"object"===typeof
window&&(f.prototype._rand=function(){throw new Error("Not implemented yet")});else try{var
d=e("crypto");if("function"!==typeof d.randomBytes)throw new Error("Not
supported");f.prototype._rand=function(e){return
d.randomBytes(e)}catch(e){},{crypto:18}],18:[function(e,t,i){},{}],19:[function(e,t,i){i.utils=e("./hash/utils"),i.co
mmon=e("./hash/common"),i.sha=e("./hash/sha"),i.ripemd=e("./hash/ripemd"),i.hmac=e("./hash/hmac"),i.sha1=i.sha
.sha1,i.sha256=i.sha.sha256,i.sha224=i.sha.sha224,i.sha384=i.sha.sha384,i.sha512=i.sha.sha512,i.ripemd160=i.ripe
md.ripemd160},{"/hash/common":20,"/hash/hmac":21,"/hash/ripemd":22,"/hash/sha":23,"/hash/utils":30}],20:[fu
nction(e,t,i){"use strict";var r=e("./utils"),f=e("minimalistic-assert");function
d(){this.pending=null,this.pendingTotal=0,this.blockSize=this.constructor.blockSize,this.outSize=this.constructor.o
utSize,this.hmacStrength=this.constructor.hmacStrength,this.padLength=this.constructor.padLength/8,this.endian="
big",this._delta8=this.blockSize/8,this._delta32=this.blockSize/32}(i.BlockHash=d).prototype.update=function(e,t){
if(e=r.toArray(e,t),this.pending?this.pending=this.pending.concat(e):this.pending=e,this.pendingTotal+=e.length,this
.pending.length>=this._delta8){t=(e=this.pending).length%this._delta8;this.pending=e.slice(e.length-
t,e.length),0===this.pending.length&&(this.pending=null),e=r.join32(e,0,e.length-t,this.endian);for(var
i=0;i<e.length;i+=this._delta32)this._update(e,i,i+this._delta32)}return this},d.prototype.digest=function(e){return
this.update(this._pad()),f(null===this.pending),this._digest(e)},d.prototype._pad=function(){var
e=this.pendingTotal,t=this._delta8,i=t-(e+this.padLength)%t,r=new Array(i+this.padLength);r[0]=128;for(var
f=1;f<i;f++)r[f]=0;if(e<=3,"big"===this.endian){for(var
d=8;d<this.padLength;d++)r[f++]=0;r[f++]=0,r[f++]=0,r[f++]=0,r[f++]=0,r[f++]=e>>>24&255,r[f++]=e>>>16&25
5,r[f++]=e>>>8&255,r[f++]=255&e}else
for(r[f++]=255&e,r[f++]=e>>>8&255,r[f++]=e>>>16&255,r[f++]=e>>>24&255,r[f++]=0,r[f++]=0,r[f++]=0,r[f++
]=0,d=8;d<this.padLength;d++)r[f++]=0;return r}},{"/utils":30,"minimalistic-assert":33}],21:[function(e,t,i){"use

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strict";var r=e("./utils"),f=e("minimalistic-assert");function d(e,t,i){if(!(this instanceof d))return new
d(e,t,i);this.Hash=e,this.blockSize=e.blockSize/8,this.outSize=e.outSize/8,this.inner=null,this.outer=null,this._init(r.t
oArray(t,i))(t.exports=d).prototype._init=function(e){e.length>this.blockSize&&(e=(new
this.Hash).update(e).digest()),f(e.length<=this.blockSize);for(var
t=e.length;t<this.blockSize;t++)e.push(0);for(t=0;t<e.length;t++)e[t]^=54;for(this.inner=(new
this.Hash).update(e),t=0;t<e.length;t++)e[t]^=106;this.outer=(new
this.Hash).update(e)},d.prototype.update=function(e,t){return
this.inner.update(e,t),this},d.prototype.digest=function(e){return
this.outer.update(this.inner.digest()),this.outer.digest(e)},{"/utils":30,"minimalistic-
assert":33}],22:[function(e,t,i){"use strict";var
r=e("./utils"),e=e("./common"),p=r.rotl32,m=r.sum32,v=r.sum32_3,g=r.sum32_4,f=e.BlockHash;function
d(){if(!(this instanceof d))return new
d;f.call(this),this.h=[1732584193,4023233417,2562383102,271733878,3285377520],this.endian="little"}function
y(e,t,i,r){return
e<=15?t^i^r:e<=31?t&i~t&r:e<=47?(t~i)^r:e<=63?t&r|i&~r:t^(i~r)}r.inherits(d,f),(i.ripemd160=d).blockSize=512,
d.outSize=160,d.hmacStrength=192,d.padLength=64,d.prototype._update=function(e,t){for(var
i,r=h=this.h[0],f=l=this.h[1],d=b=this.h[2],n=u=this.h[3],a=o=this.h[4],s=0;s<80;s++)var
c=m(p(g(h,y(s,l,b,u),e[M[s]+t]),(i=s)<=15?0:i<=31?1518500249:i<=47?1859775393:i<=63?2400959708:284085383
8),S[s]),o),h=o,o=u,u=p(b,10),b=l,l=c,c=m(p(g(r,y(79-
s,f,d,n),e[w[s]+t]),(i=s)<=15?1352829926:i<=31?1548603684:i<=47?1836072691:i<=63?2053994217:0),_[s]),a),r=a
,a=n,n=p(d,10),d=f,f=c;c=v(this.h[1],b,n),this.h[1]=v(this.h[2],u,a),this.h[2]=v(this.h[3],o,r),this.h[3]=v(this.h[4],h,f)
,this.h[4]=v(this.h[0],l,d),this.h[0]=c},d.prototype._digest=function(e){return"hex"===e?r.toHex32(this.h,"little"):r.
split32(this.h,"little");var
M=[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,7,4,13,1,10,6,15,3,12,0,9,5,2,14,11,8,3,10,14,4,9,15,8,1,2,7,0,6,13,11,5,12,
1,9,11,10,0,8,12,4,13,3,7,15,14,5,6,2,4,0,5,9,7,12,2,10,14,1,3,8,11,6,15,13],w=[5,14,7,0,9,2,11,4,13,6,15,8,1,10,3,12
,6,11,3,7,0,13,5,10,14,15,8,12,4,9,1,2,15,5,1,3,7,14,6,9,11,8,12,2,10,0,4,13,8,6,4,1,3,11,15,0,5,12,2,13,9,7,10,14,12,
15,10,4,1,5,8,7,6,2,13,14,0,3,9,11],S=[11,14,15,12,5,8,7,9,11,13,14,15,6,7,9,8,7,6,8,13,11,9,7,15,7,12,15,9,11,7,13,1
2,11,13,6,7,14,9,13,15,14,8,13,6,5,12,7,5,11,12,14,15,14,15,9,8,9,14,5,6,8,6,5,12,9,15,5,11,6,8,13,12,5,12,13,14,11,
8,5,6],_=[8,9,9,11,13,15,15,5,7,7,8,11,14,14,12,6,9,13,15,7,12,8,9,11,7,7,12,7,6,15,13,11,9,7,15,11,8,6,6,14,12,13,5,
14,13,13,7,5,15,5,8,11,14,14,6,14,6,9,12,9,12,5,15,8,8,5,12,9,12,5,14,6,8,13,6,5,15,13,11,11]},{"./common":20,"./ut
ils":30}],23:[function(e,t,i){"use
strict";i.sha1=e("./sha/1"),i.sha224=e("./sha/224"),i.sha256=e("./sha/256"),i.sha384=e("./sha/384"),i.sha512=e("./sha
/512")},{"/sha/1":24,"./sha/224":25,"./sha/256":26,"./sha/384":27,"./sha/512":28}],24:[function(e,t,i){"use
strict";var
r=e("./utils"),f=e("./common"),e=e("./common"),h=r.rotl32,o=r.sum32,u=r.sum32_5,b=e.ft_1,d=f.BlockHash,l=[15
18500249,1859775393,2400959708,3395469782];function n(){if(!(this instanceof n))return new
n;d.call(this),this.h=[1732584193,4023233417,2562383102,271733878,3285377520],this.W=new
Array(80)}r.inherits(n,d),(t.exports=n).blockSize=512,n.outSize=160,n.hmacStrength=80,n.padLength=64,n.prototy
pe._update=function(e,t){for(var i=this.W,r=0;r<16;r++)i[r]=e[t+r];for(r<i.length;r++)i[r]=h(i[r-3]^i[r-8]^i[r-
14]^i[r-16],1);for(var f=this.h[0],d=this.h[1],n=this.h[2],a=this.h[3],s=this.h[4],r=0;r<i.length;r++)var
c=~~(r/20),c=u(h(f,5),b(c,d,n,a),s,i[r],l[c]),s=a,a=n,n=h(d,30),d=f,f=c;this.h[0]=o(this.h[0],f),this.h[1]=o(this.h[1],d)
,this.h[2]=o(this.h[2],n),this.h[3]=o(this.h[3],a),this.h[4]=o(this.h[4],s)},n.prototype._digest=function(e){return"hex"
===e?r.toHex32(this.h,"big"):r.split32(this.h,"big")},{"/common":20,"./utils":30,"./common":29}],25:[function(e
,t,i){"use strict";var r=e("./utils"),f=e("./256");function d(){if(!(this instanceof d))return new
d;f.call(this),this.h=[3238371032,914150663,812702999,4144912697,4290775857,1750603025,1694076839,32040
75428]}r.inherits(d,f),(t.exports=d).blockSize=512,d.outSize=224,d.hmacStrength=192,d.padLength=64,d.prototype
._digest=function(e){return"hex"===e?r.toHex32(this.h.slice(0,7),"big"):r.split32(this.h.slice(0,7),"big")},{"/utils
":30,"./256":26}],26:[function(e,t,i){"use strict";var

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r=e("../utils"),f=e("../common"),d=e("../common"),l=e("minimalistic-assert"),p=r.sum32,m=r.sum32_4,v=r.sum32_5,g=d.ch32,y=d.maj32,M=d.s0_256,w=d.s1_256,S=d.g0_256,_=d.g1_256,n=f.BlockHash,a=[1116352408,1899447441,3049323471,3921009573,961987163,1508970993,2453635748,2870763221,3624381080,310598401,607225278,1426881987,1925078388,2162078206,2614888103,3248222580,3835390401,4022224774,264347078,604807628,770255983,1249150122,1555081692,1996064986,2554220882,2821834349,2952996808,3210313671,3336571891,3584528711,113926993,338241895,666307205,773529912,1294757372,1396182291,1695183700,1986661051,2177026350,2456956037,2730485921,2820302411,3259730800,3345764771,3516065817,3600352804,4094571909,275423344,430227734,506948616,659060556,883997877,958139571,1322822218,1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,3204031479,3329325298];function s(){if(!(this instanceof s))return new s;n.call(this),this.h=[1779033703,3144134277,1013904242,2773480762,1359893119,2600822924,528734635,1541459225],this.k=a,this.W=new Array(64)}r.inherits(s,n),(t.exports=s).blockSize=512,s.outSize=256,s.hmacStrength=192,s.padLength=64,s.prototype._update=function(e,t){for(var i=this.W,r=0;r<16;r++)i[r]=e[t+r];for(;r<i.length;r++)i[r]=m(_(i[r-2]),i[r-7],S(i[r-15]),i[r-16]);var f=this.h[0],d=this.h[1],n=this.h[2],a=this.h[3],s=this.h[4],c=this.h[5],h=this.h[6],o=this.h[7];for(l(this.k.length===i.length),r=0;r<i.length;r++)var u=v(o,w(s),g(s,c,h),this.k[r],i[r]),b=p(M(f),y(f,d,n)),o=h,h=c,c=s,s=p(a,u),a=n,n=d,d=f,f=p(u,b);this.h[0]=p(this.h[0],f),this.h[1]=p(this.h[1],d),this.h[2]=p(this.h[2],n),this.h[3]=p(this.h[3],a),this.h[4]=p(this.h[4],s),this.h[5]=p(this.h[5],c),this.h[6]=p(this.h[6],h),this.h[7]=p(this.h[7],o)},s.prototype._digest=function(e){return"hex"===e?r.toHex32(this.h,"big"):r.split32(this.h,"big")},{ "../common":20,"../utils":30,"../common":29,"minimalistic-assert":33}],27:[function(e,t,i){"use strict";var r=e("../utils"),f=e("../512");function d(){if(!(this instanceof d))return new d;f.call(this),this.h=[3418070365,3238371032,1654270250,914150663,2438529370,812702999,355462360,4144912697,1731405415,4290775857,2394180231,1750603025,3675008525,1694076839,1203062813,3204075428]}r.inherits(d,f),(t.exports=d).blockSize=1024,d.outSize=384,d.hmacStrength=192,d.padLength=128,d.prototype._digest=function(e){return"hex"===e?r.toHex32(this.h.slice(0,12),"big"):r.split32(this.h.slice(0,12),"big")},{ "../utils":30,"../512":28}],28:[function(e,t,i){"use strict";var r=e("../utils"),f=e("../common"),P=e("minimalistic-assert"),j=r.rotr64_hi,N=r.rotr64_lo,u=r.shr64_hi,b=r.shr64_lo,E=r.sum64,B=r.sum64_hi,L=r.sum64_lo,l=r.sum64_4_hi,p=r.sum64_4_lo,O=r.sum64_5_hi,F=r.sum64_5_lo,d=f.BlockHash,n=[1116352408,3609767458,1899447441,602891725,3049323471,3964484399,3921009573,2173295548,961987163,4081628472,1508970993,3053834265,2453635748,2937671579,2870763221,3664609560,3624381080,2734883394,310598401,1164996542,607225278,1323610764,1426881987,3590304994,1925078388,4068182383,2162078206,991336113,2614888103,633803317,3248222580,3479774868,3835390401,2666613458,4022224774,944711139,264347078,2341262773,604807628,2007800933,770255983,1495990901,1249150122,1856431235,1555081692,3175218132,1996064986,2198950837,2554220882,3999719339,2821834349,766784016,2952996808,2566594879,3210313671,3203337956,3336571891,1034457026,3584528711,2466948901,113926993,3758326383,338241895,168717936,666307205,1188179964,773529912,1546045734,1294757372,1522805485,1396182291,2643833823,1695183700,2343527390,1986661051,1014477480,2177026350,1206759142,2456956037,344077627,2730485921,1290863460,2820302411,3158454273,3259730800,3505952657,3345764771,106217008,3516065817,3606008344,3600352804,1432725776,4094571909,1467031594,275423344,851169720,430227734,3100823752,506948616,1363258195,659060556,3750685593,883997877,3785050280,958139571,3318307427,1322822218,3812723403,1537002063,2003034995,1747873779,3602036899,1955562222,1575990012,2024104815,1125592928,2227730452,2716904306,2361852424,442776044,2428436474,593698344,2756734187,3733110249,3204031479,2999351573,3329325298,3815920427,3391569614,3928383900,3515267271,566280711,3940187606,3454069534,4118630271,4000239992,116418474,1914138554,174292421,2731055270,289380356,3203993006,460393269,320620315,685471733,587496836,852142971,1086792851,1017036298,365543100,1126000580,2618297676,1288033470,3409855158,1501505948,4234509866,1607167915,987167468,1816402316,1246189591];function a(){if(!(this instanceof a))return new
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a;d.call(this),this.h=[1779033703,4089235720,3144134277,2227873595,1013904242,4271175723,2773480762,159
5750129,1359893119,2917565137,2600822924,725511199,528734635,4215389547,1541459225,327033209],this.k
=n,this.W=new
Array(160)}r.inherits(a,d),(t.exports=a).blockSize=1024,a.outSize=512,a.hmacStrength=192,a.padLength=128,a.pro
totype._prepareBlock=function(e,t){for(var i=this.W,r=0;r<32;r++)i[r]=e[t+r];for(;r<i.length;r+=2){var
f=function(e,t){var i=j(e,t,19),r=j(t,e,29),t=u(e,t,6),t=i^r^t;t<0&&(t+=4294967296);return t}(i[r-4],i[r-
3]),d=function(e,t){var i=N(e,t,19),r=N(t,e,29),t=b(e,t,6),t=i^r^t;t<0&&(t+=4294967296);return t}(i[r-4],i[r-
3]),n=i[r-14],a=i[r-13],s=function(e,t){var i=j(e,t,1),r=j(e,t,8),t=u(e,t,7),t=i^r^t;t<0&&(t+=4294967296);return
t}(i[r-30],i[r-29]),c=function(e,t){var i=N(e,t,1),r=N(e,t,8),t=b(e,t,7),t=i^r^t;t<0&&(t+=4294967296);return t}(i[r-
30],i[r-29]),h=i[r-32],o=i[r-
31];i[r]=l(f,d,n,a,s,c,h,o),i[r+1]=p(f,d,n,a,s,c,h,o)}}a.prototype._update=function(e,t){this._prepareBlock(e,t);var
i=this.W,r=this.h[0],f=this.h[1],d=this.h[2],n=this.h[3],a=this.h[4],s=this.h[5],c=this.h[6],h=this.h[7],o=this.h[8],u=t
his.h[9],b=this.h[10],l=this.h[11],p=this.h[12],m=this.h[13],v=this.h[14],g=this.h[15];P(this.k.length===i.length);for
(var y=0;y<i.length;y+=2)var M=v,w=g,S=function(e,t){var
i=j(e,t,14),r=j(e,t,18),e=j(t,e,9),e=i^r^e;e<0&&(e+=4294967296);return e}(o,u),_=function(e,t){var
i=N(e,t,14),r=N(e,t,18),e=N(t,e,9),e=i^r^e;e<0&&(e+=4294967296);return
e}(o,u),A=function(e,t,i){i=e&t^~e&i;i<0&&(i+=4294967296);return
i}(o,b,p),x=function(e,t,i){i=e&t^~e&i;i<0&&(i+=4294967296);return
i}(u,l,m),I=this.k[y],z=this.k[y+1],q=i[y],R=i[y+1],k=O(M,w,S,_,A,x,I,z,q,R),q=F(M,w,S,_,A,x,I,z,q,R),M=functio
n(e,t){var i=j(e,t,28),r=j(t,e,2),e=j(t,e,7),e=i^r^e;e<0&&(e+=4294967296);return e}(r,f),w=function(e,t){var
i=N(e,t,28),r=N(t,e,2),e=N(t,e,7),e=i^r^e;e<0&&(e+=4294967296);return
e}(r,f),S=function(e,t,i){i=e&t^e&i^t&i;i<0&&(i+=4294967296);return
i}(r,d,a),_=function(e,t,i){i=e&t^e&i^t&i;i<0&&(i+=4294967296);return
i}(f,n,s),R=B(M,w,S,_)_=L(M,w,S,_)v=p,g=m,p=b,m=l,b=o,l=u,o=B(c,h,k,q),u=L(h,h,k,q),c=a,h=s,a=d,s=n,d=r,n
=f,r=B(k,q,R,_)f=L(k,q,R,_)E(this.h,0,r,f),E(this.h,2,d,n),E(this.h,4,a,s),E(this.h,6,c,h),E(this.h,8,o,u),E(this.h,10,b
,l),E(this.h,12,p,m),E(this.h,14,v,g)},a.prototype._digest=function(e){return"hex"===e?r.toHex32(this.h,"big"):r.split
32(this.h,"big")},{"../common":20,"../utils":30,"minimalistic-assert":33}],29:[function(e,t,i){"use strict";var
r=e("../utils").rotr32;function f(e,t,i){return e&t^~e&i}function d(e,t,i){return e&t^e&i^t&i}function n(e,t,i){return
e^t^i}i.ft_1=function(e,t,i,r){return 0===e?f(t,i,r):1===e||3===e?t^i^r:2===e?d(t,i,r):void
0},i.ch32=f,i.maj32=d,i.p32=n,i.s0_256=function(e){return r(e,2)^r(e,13)^r(e,22)},i.s1_256=function(e){return
r(e,6)^r(e,11)^r(e,25)},i.g0_256=function(e){return r(e,7)^r(e,18)^e>>>3},i.g1_256=function(e){return
r(e,17)^r(e,19)^e>>>10},{"../utils":30}],30:[function(e,t,i){"use strict";var s=e("minimalistic-
assert"),e=e("inherits");function d(e){return(e>>>24|e>>>8&65280|e<<<8&16711680|(255&e)<<<24)>>>0}function
r(e){return 1===e.length?"0"+e:e}function n(e){return
7===e.length?"0"+e:6===e.length?"00"+e:5===e.length?"000"+e:4===e.length?"0000"+e:3===e.length?"00000"+
e:2===e.length?"000000"+e:1===e.length?"0000000"+e:e}i.inherits=e,i.toArray=function(e,t){if(Array.isArray(e))r
eturn e.slice();if(!e)return[];var i,r,f=[];if("string"===typeof e)if(t){if("hex"===t)for((e=e.replace(/^[a-z0-
9]+/gi,"")).length%2!=0&&(e="0"+e),n=0;n<e.length;n+=2)f.push(parseInt(e[n]+e[n+1],16))}else for(var
d=0,n=0;n<e.length;n++){var
a=e.charCodeAtAt(n);a<128?f[d++]=a:a<2048?(f[d++]|=a>>6|192,f[d++]|=63&a|128):(r=n,55296!==(64512&(i=e).char
CodeAtAt(r))|r<0||r+1>=i.length||56320!==(64512&i.charCodeAtAt(r+1)))?f[d++]|=a>>12|224:(a=65536+((1023&a)<<<10)
+(1023&e.charCodeAtAt(++n)),f[d++]|=a>>18|240,f[d++]|=a>>12&63|128),f[d++]|=a>>6&63|128,f[d++]|=63&a|128)}
else for(n=0;n<e.length;n++)f[n]=0|e[n];return f},i.toHex=function(e){for(var
t="",i=0;i<e.length;i++)t+=r(e[i].toString(16));return t},i.htonl=d,i.toHex32=function(e,t){for(var
i="",r=0;r<e.length;r++){var f=e[r];i+=n((f="little"===t?f:d(f):f).toString(16))}return
i},i.zero2=r,i.zero8=n,i.join32=function(e,t,i,r){s((i-=t)%4===0);for(var f=new
Array(i/4),d=0,n=t;d<f.length;d++,n+=4){var
a="big"===r?e[n]<<<24|e[n+1]<<<16|e[n+2]<<<8|e[n+3]:e[n+3]<<<24|e[n+2]<<<16|e[n+1]<<<8|e[n];f[d]=a>>>0}return
```

```

f},i.split32=function(e,t){for(var i=new Array(4*e.length),r=0,f=0;r<e.length;r++,f+=4){var
d=e[r];"big"===t?(i[f]=d>>>24,i[f+1]=d>>>16&255,i[f+2]=d>>>8&255,i[f+3]=255&d):(i[f+3]=d>>>24,i[f+2]=d>>>16&255,i[f+1]=d>>>8&255,i[f]=255&d)}return i},i.rotr32=function(e,t){return e>>>t|e<<<32-
t},i.rotl32=function(e,t){return e<<<t|e>>>32-t},i.sum32=function(e,t){return
e+t>>>0},i.sum32_3=function(e,t,i){return e+t+i>>>0},i.sum32_4=function(e,t,i,r){return
e+t+i+r>>>0},i.sum32_5=function(e,t,i,r,f){return e+t+i+r+f>>>0},i.sum64=function(e,t,i,r){var
f=e[t],d=r+e[t+1]>>>0,f=(d<r?1:0)+i+f;e[t]=f>>>0,e[t+1]=d},i.sum64_hi=function(e,t,i,r){return(t+r>>>0<t?1:0)+e
+i>>>0},i.sum64_lo=function(e,t,i,r){return t+r>>>0},i.sum64_4_hi=function(e,t,i,r,f,d,n,a){var s=0,c=t;return
s+=(c=c+r>>>0)<t?1:0,s+=(c=c+d>>>0)<d?1:0,e+i+f+n+(s+=(c=c+a>>>0)<a?1:0)>>>0},i.sum64_4_lo=function(e
,t,i,r,f,d,n,a){return t+r+d+a>>>0},i.sum64_5_hi=function(e,t,i,r,f,d,n,a,s,c){var h=0,o=t;return
h+=(o=o+r>>>0)<t?1:0,h+=(o=o+d>>>0)<d?1:0,h+=(o=o+a>>>0)<a?1:0,e+i+f+n+s+(h+=(o=o+c>>>0)<c?1:0)>>
>0},i.sum64_5_lo=function(e,t,i,r,f,d,n,a,s,c){return t+r+d+a+c>>>0},i.rotr64_hi=function(e,t,i){return(t<<<32-
i|e>>>i)>>>0},i.rotr64_lo=function(e,t,i){return(e<<<32-i|t>>>i)>>>0},i.shr64_hi=function(e,t,i){return
e>>>i},i.shr64_lo=function(e,t,i){return(e<<<32-i|t>>>i)>>>0}},{inherits:32,"minimalistic-
assert":33}],31:[function(e,t,i){"use strict";var r=e("hash.js"),d=e("minimalistic-crypto-utils"),f=e("minimalistic-
assert");function n(e){if(!(this instanceof n))return new
n(e);this.hash=e.hash,this.predResist=!e.predResist,this.outLen=this.hash.outSize,this.minEntropy=e.minEntropy||t
his.hash.hmacStrength,this._reseed=null,this.reseedInterval=null,this.K=null,this.V=null;var
t=d.toArray(e.entropy,e.entropyEnc||"hex"),i=d.toArray(e.nonce,e.nonceEnc||"hex"),e=d.toArray(e.pers,e.persEnc||"
hex");f(t.length>=this.minEntropy/8,"Not enough entropy. Minimum is: "+this.minEntropy+"
bits"),this._init(t,i,e)}(t.exports=n).prototype._init=function(e,t,i){i=e.concat(t).concat(i);this.K=new
Array(this.outLen/8),this.V=new Array(this.outLen/8);for(var
r=0;r<this.V.length;r++)this.K[r]=0,this.V[r]=1;this._update(i),this._reseed=1,this.reseedInterval=28147497671065
6},n.prototype._hmac=function(){return new r.hmac(this.hash,this.K)},n.prototype._update=function(e){var
t=this._hmac().update(this.V).update([0]);e&&(t=t.update(e)),this.K=t.digest(),this.V=this._hmac().update(this.V).d
igest(),e&&(this.K=this._hmac().update(this.V).update([1]).update(e).digest(),this.V=this._hmac().update(this.V).di
gest())},n.prototype.reseed=function(e,t,i,r){"string"!==typeof
t&&(r=i,i=t,t=null),e=d.toArray(e,t),i=d.toArray(i,r),f(e.length>=this.minEntropy/8,"Not enough entropy. Minimum
is: "+this.minEntropy+"
bits"),this._update(e.concat(i||[])),this._reseed=1},n.prototype.generate=function(e,t,i,r){if(this._reseed>this.reseedIn
terval)throw new Error("Reseed is required");"string"!==typeof
t&&(r=i,i=t,t=null),i&&(i=d.toArray(i,r||"hex"),this._update(i));for(var
f=[];f.length<e;){this.V=this._hmac().update(this.V).digest(),f=f.concat(this.V);r=f.slice(0,e);return
this._update(i),this._reseed++,d.encode(r,t)},{hash.js":19,"minimalistic-assert":33,"minimalistic-crypto-
utils":34}],32:[function(e,t,i){"function"===typeof
Object.create?t.exports=function(e,t){t&&(e.super_=t,e.prototype=Object.create(t.prototype,{constructor:{value:e,e
numerable:!1,writable:!0,configurable:!0}}));t.exports=function(e,t){var
i;t&&(e.super_=t,(i=function(){}).prototype=t.prototype,e.prototype=new
i,e.prototype.constructor=e)},{},33:[function(e,t,i){function r(e,t){if(!e)throw new Error(t||"Assertion
failed")}(t.exports=r).equal=function(e,t,i){if(e!==t)throw new Error(i||"Assertion failed: "+e+" !=
"+t)},{},34:[function(e,t,i){"use strict";function r(e){return 1===e.length?"0"+e:e}function f(e){for(var
t="",i=0;i<e.length;i++)t+=r(e[i]).toString(16);return t}i.toArray=function(e,t){if(Array.isArray(e))return
e.slice();if(!e)return[];var i=[];if("string"!==typeof e){for(var r=0;r<e.length;r++)i[r]=0|e[r];return
i}if("hex"===t){(e=e.replace(/^[^a-z0-
9]+/gi,"")).length%2!=0&&(e="0"+e);for(r=0;r<e.length;r+=2)i.push(parseInt(e[r]+e[r+1],16))}else
for(r=0;r<e.length;r++){var f=e.charCodeAtAt(r),d=f>>8,f=255&f;d?i.push(d):i.push(f)}return
i},i.zero2=r,i.toHexString=f,i.encode=function(e,t){return"hex"===t?f(e):e}},{},35:[function(e,t,i){t.exports={name:"elli
ptic",version:"6.5.4",description:"EC cryptography",main:"lib/elliptic.js",files:["lib"],scripts:{lint:"eslint lib

```

```
test", "lint:fix": "npm run lint -- --fix", unit: "istanbul test _mocha --reporter=spec test/index.js", test: "npm run lint &&
npm run unit", version: "grunt dist && git add
dist/" }, repository: { type: "git", url: "git@github.com:indutny/elliptic" }, keywords: ["EC", "Elliptic", "curve", "Cryptograp
hy"], author: "Fedor Indutny
<fedor@indutny.com>", license: "MIT", bugs: { url: "https://github.com/indutny/elliptic/issues" }, homepage: "https://git
hub.com/indutny/elliptic", devDependencies: { brfs: "^2.0.2", coveralls: "^3.1.0", eslint: "^7.6.0", grunt: "^1.2.1", "grunt-
browserify": "^5.3.0", "grunt-cli": "^1.3.2", "grunt-contrib-connect": "^3.0.0", "grunt-contrib-copy": "^1.0.0", "grunt-
contrib-uglify": "^5.0.0", "grunt-mocha-istanbul": "^5.0.2", "grunt-
saucelabs": "^9.0.1", istanbul: "^0.4.5", mocha: "^8.0.1" }, dependencies: { "bn.js": "^4.11.9", "brorand": "^1.1.0", "hash.js": "
^1.0.0", "hmac-drbg": "^1.0.1", inherits: "^2.0.4", "minimalistic-assert": "^1.0.1", "minimalistic-crypto-
utils": "^1.0.1" } }, { }, { }, [1])(1));
```

Found in path(s):

```
* /opt/cola/permits/1130789420_1612812116.2/0/indutny-elliptic-v6-5-4-0-g43ac7f2-tar-gz/indutny-elliptic-
956793a/dist/elliptic.min.js
```

1.529 html-comment-regex 1.1.2

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1.530 httpcomponents-core 4.4.15

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1.531 gridstack 0.4.0

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1.532 eslint-plugin-import 2.24.2

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1.533 eventemitter3 4.0.7

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1.534 console-browserify 1.2.0

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1.535 flat-cache 3.0.4

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1.536 zt 1.13

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1.537 bouncycastle-fips 1.0.2

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1.544 icss-utils 2.1.0

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1.552 postcss-place 4.0.1

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1.558 bcel 2.7.2

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 */
/*
 * $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
 */
package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */
public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
```

```

* <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
*
* Futurework: have this read version info from jar manifest.
*
* @return String denoting our current version
*/
public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+". "+getReleaseVersionNum()+". "
        +( (getDevelopmentVersionNum() > 0) ?
            ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 */

```

* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
*/

```
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}
```

/**

* Release Number.
* Release number. This changes when:
* - a new set of functionality is to be added, eg,
* implementation of a new W3C specification.
* - API or behaviour change.
* - its designated as a reference release.
*/

```
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
```

/**

* Maintenance Drop Number.
* Optional identifier used to designate maintenance
* drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/

```
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
```

/**

* Development Drop Number.
* Optional identifier designates development drop of
* a specific release. D01 is the first development drop
* of a new release.
*
* Development drops are works in progress towards a
* completed, final release. A specific development drop
* may not completely implement all aspects of a new
* feature, which may take several development drops to
* complete. At the point of the final drop for the


```

*   release, the D suffix will be omitted.
*
*   Each 'D' drops can contain functional enhancements as
*   well as defect fixes. 'D' drops may not be as stable as
*   the final releases.
*/
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
}
}

```

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*/
/**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/

```

Found in path(s):

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*/

/*

* \$Id: Version.src 468654 2006-10-28 07:09:23Z minchau \$

*/

package org.apache.xml.serializer;

```

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */
public final class Version
{
    /**
     * Get the basic version string for the current Serializer.
     * Version String formatted like
     * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nm]"</CODE>.
     *
     * Futurework: have this read version info from jar manifest.
     *
     * @return String denoting our current version
     */
    public static String getVersion()
    {
        return getProduct()+" "+getImplementationLanguage()+" "
            +getMajorVersionNum()+". "+getReleaseVersionNum()+". "
            +(getDevelopmentVersionNum() > 0) ?
                ("D"+getDevelopmentVersionNum()) : (" "+getMaintenanceVersionNum());
    }

    /**
     * Print the processor version to the command line.
     *
     * @param argv command line arguments, unused.
     */
    public static void main(String argv[])
    {
        System.out.println(getVersion());
    }

    /**
     * Name of product: Serializer.
     */
    public static String getProduct()
    {
        return "Serializer";
    }
}
/**

```

```

* Implementation Language: Java.
*/
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 *     significant, externally apparent enhancement from
 *     the previous release. 'n' represents the n'th
 *     version.
 *
 *     Clients should carefully consider the implications
 *     of new versions as external interfaces and behaviour
 *     may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 *     - a new set of functionality is to be added, eg,
 *       implementation of a new W3C specification.
 *     - API or behaviour change.
 *     - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *     drop applied to a specific release and contains
 *     fixes for defects reported. It maintains compatibility
 *     with the release and contains no API changes.
 *     When missing, it designates the final and complete
 *     development drop for a release.
 */
public static int getMaintenanceVersionNum()

```

```

{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@").length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
}

```

Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src

No license file was found, but licenses were detected in source scan.

```

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* limitations under the License.

*/

/**

* Major version number.
* Version number. This changes only when there is a
* significant, externally apparent enhancement from
* the previous release. 'n' represents the n'th
* version.
*
* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.

*/

Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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* limitations under the License.

*/

// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/ToHTMLStream.java

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 * distributed with this work for additional information
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
// Proprietary
/** The 'document-location()' id (Proprietary). */
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/FunctionTable.java
```

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# you may not use this file except in compliance with the License.
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# http://www.apache.org/licenses/LICENSE-2.0
# distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_unknown.properties
```

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/HTMLEntities.properties
```

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/output_html.properties
```

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```
/*
```

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```

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```

```
*
```

```
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```

```
*
```

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* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.
```

```
*/
```

```
/*
```

```
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
```

```
*/
```

```
/*
```

```
* @author Jacek Ambroziak
```

```
* @author Santiago Pericas-Geertsen
```

```
* @author Morten Jorgensen
```

```
* @author G. Todd Miller
```

```
*/
```

```
package org.apache.xalan.xsltc.compiler;
```

```
import java.util.Stack;
```

```
import java.util.Vector;
```

```
import java.io.StringReader;
```

```
import java_cup.runtime.*;
```

```
import org.apache.xml.dtm.DTM;
```

```
import org.apache.xalan.xsltc.DOM;
```

```
import org.apache.xml.dtm.Axis;
```

```
import org.apache.xalan.xsltc.runtime.Operators;
```

```
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;
```

```
parser code {:
```



```

/**
 * Used by function calls with no args.
 */
static public final Vector EmptyArgs = new Vector(0);

/**
 * Reference to non-existing variable.
 */
static public final VariableRef DummyVarRef = null;

/**
 * Reference to the Parser class.
 */
private Parser _parser;
private XSLTC _xsltc;

/**
 * String representation of the expression being parsed.
 */
private String _expression;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

```

```

public void setMultiDocument(boolean flag) {
    _xslt.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xslt.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xslt.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:" and "{uri}:@". The last two
 * patterns are expanded as "[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) { // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
}
else if (test instanceof Integer) {
nodeType = ((Integer) test).intValue();

return new StepPattern(axis, nodeType, predicates);
}
else {
QName name = (QName)test;
boolean setPriority = false;

if (axis == Axis.NAMESPACE) {
nodeType = (name.toString().equals("*")) ? -1
: _xslt.registerNamespacePrefix(name);
}
else {
final String uri = name.getNamespace();

```

```

final String local = name.getLocalPart();
final QName namespace_uri =
    _parser.getQNameIgnoreDefaultNs("namespace-uri");

// Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
if (uri != null && (local.equals("*") || local.equals("@*"))) {
    if (predicates == null) {
        predicates = new Vector(2);
    }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);

    predicates.add(
        new Predicate(
            new EqualityExpr(Operators.EQ,
                new NamespaceUriCall(namespace_uri),
                new LiteralExpr(uri)));
    )

    if (local.equals("*")) {
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
        : NodeTest.ELEMENT;
    }
    else if (local.equals("@*")) {
        nodeType = NodeTest.ATTRIBUTE;
    }
    else {
        nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
        : _xsltc.registerElement(name);
    }
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
    result.setPriority(-0.25);
}

return result;
}

public int findNodeType(int axis, Object test) {
if (test == null) { // *
    return (axis == Axis.ATTRIBUTE) ?
        NodeTest.ATTRIBUTE :

```

```

(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    }
    else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
return (name.toString().equals("*")) ? -1
    : _xslt.registerNamespacePrefix(name);
        }

        if (name.getNamespace() == null) {
final String local = name.getLocalPart();

if (local.equals("*")) {
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
    : NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
    return NodeTest.ATTRIBUTE;
}
}

        return (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name)
    : _xslt.registerElement(name);
    }
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
 * compiled in a separate module.
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {

```

```

        ErrorMessage err = new ErrorMessage(ErrorMessage.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMessage error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMessage err = new ErrorMessage(ErrorMessage.SYNTAX_ERR, _lineNumber,
        _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    }
    else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    }
    else {
        addError(new ErrorMessage(ErrorMessage.INTERNAL_ERR, "XPathParser.insertStep"));
        return rlp;
    }
}

```

```

}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}
:}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;

```

non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern

{: RESULT = pattern; :}

| EXPRESSION Expr:expr

{: RESULT = expr; :};

/* ----- Patterns ----- */

Pattern ::= LocationPathPattern:lpp

{: RESULT = lpp; :}

| LocationPathPattern:lpp VBAR Pattern:p

{: RESULT = new AlternativePattern(lpp, p); :};

LocationPathPattern ::= SLASH

{: RESULT = new AbsolutePathPattern(null); :}

| SLASH RelativePathPattern:rpp

{: RESULT = new AbsolutePathPattern(rpp); :}

| IdKeyPattern:ikp

{: RESULT = ikp; :}

| IdKeyPattern:ikp SLASH RelativePathPattern:rpp

{: RESULT = new ParentPattern(ikp, rpp); :}

| IdKeyPattern:ikp DSLASH RelativePathPattern:rpp

```

{: RESULT = new AncestorPattern(ikp, rpp); :}

| DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(rpp); :}

| RelativePathPattern:rpp
{: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
{: RESULT = new IdPattern(l);
  parser.setHasIdCall(true);
:}

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
{: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
{: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
{: RESULT = sp; :}

| StepPattern:sp SLASH RelativePathPattern:rpp
{: RESULT = new ParentPattern(sp, rpp); :}

| StepPattern:sp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
{:
RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
:}

| NodeTestPattern:nt Predicates:pp
{:
RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
:}

| ProcessingInstructionPattern:pip
{: RESULT = pip; :}

| ProcessingInstructionPattern:pip Predicates:pp
{: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
{:
RESULT = parser.createStepPattern(axis.intValue(), nt, null);
:}

```



```

| ChildOrAttributeAxisSpecifier:axis
NodeTestPattern:nt Predicates:pp
{
  :
  RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
  :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
{
  :
  RESULT = pip; // TODO: report error if axis is attribute
  :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
Predicates:pp
{
  :
  // TODO: report error if axis is attribute
  RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
  :};

NodeTestPattern ::= NameTestPattern:nt
{ : RESULT = nt; ;}

| NODE
{ : RESULT = new Integer(NodeTest.ANODE); ;}

| TEXT
{ : RESULT = new Integer(NodeTest.TEXT); ;}

| COMMENT
{ : RESULT = new Integer(NodeTest.COMMENT); ;}

| PI
{ : RESULT = new Integer(NodeTest.PI); ;};

NameTestPattern ::= STAR
{ : RESULT = null; ;}

| QName:qn
{ : RESULT = qn; ;};

ChildOrAttributeAxisSpecifier ::= ATSIGN
{ : RESULT = new Integer(Axis.ATTRIBUTE); ;}

| CHILD DCOLON
{ : RESULT = new Integer(Axis.CHILD); ;}

| ATTRIBUTE DCOLON
{ : RESULT = new Integer(Axis.ATTRIBUTE); ;};

```

```

Predicates ::= Predicate:p
    { :
    Vector temp = new Vector();
    temp.addElement(p);
    RESULT = temp;
    : }

    | Predicate:p Predicates:pp
    { : pp.insertElementAt(p, 0); RESULT = pp; : };

Predicate ::= LBRACK Expr:e RBRACK
    { :
    RESULT = new Predicate(e);
    : };

/* ----- Expressions ----- */

Expr ::= OrExpr:ex
    { : RESULT = ex; : };

OrExpr ::= AndExpr:ae
    { : RESULT = ae; : }

    | OrExpr:oe OR AndExpr:ae
    { : RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); : };

AndExpr ::= EqualityExpr:e
    { : RESULT = e; : }

    | AndExpr:ae AND EqualityExpr:ee
    { : RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); : };

EqualityExpr ::= RelationalExpr:re
    { : RESULT = re; : }

    | EqualityExpr:ee EQ RelationalExpr:re
    { : RESULT = new EqualityExpr(Operators.EQ, ee, re); : }

    | EqualityExpr:ee NE RelationalExpr:re
    { : RESULT = new EqualityExpr(Operators.NE, ee, re); : };

RelationalExpr ::= AdditiveExpr:ae
    { : RESULT = ae; : }

    | RelationalExpr:re LT AdditiveExpr:ae
    { : RESULT = new RelationalExpr(Operators.LT, re, ae); : }

```

| RelationalExpr:re GT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

| RelationalExpr:re LE AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

| RelationalExpr:re GE AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me

{: RESULT = me; :}

| AdditiveExpr:ae PLUS MultiplicativeExpr:me
{: RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); :}

| AdditiveExpr:ae MINUS MultiplicativeExpr:me
{: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue

{: RESULT = ue; :}

| MultiplicativeExpr:me MULT UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

| MultiplicativeExpr:me DIV UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

| MultiplicativeExpr:me MOD UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue

{: RESULT = ue; :}

| MINUS UnaryExpr:ue
{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe

{: RESULT = pe; :}

| PathExpr:pe VBAR UnionExpr:rest
{: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp

{: RESULT = lp; :}

| FilterExpr:fexp
{: RESULT = fexp; :}

```

| FilterExpr:fexp SLASH RelativeLocationPath:rlp
{: RESULT = new FilterParentPath(fexp, rlp); :}

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{:
  //
  // Expand '/' into '/descendant-or-self::node()' or
  // into '/descendant-or-self:*/
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
  {
    nodeType = DTM.ELEMENT_NODE;
  }
  final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
  FilterParentPath fpp = new FilterParentPath(fexp, step);
  fpp = new FilterParentPath(fpp, rlp);
  if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
  }
  RESULT = fpp;
:};

LocationPath ::= RelativeLocationPath:rlp
{: RESULT = rlp; :}

| AbsoluteLocationPath:alp
{: RESULT = alp; :};

RelativeLocationPath ::= Step:step
{: RESULT = step; :}

| RelativeLocationPath:rlp SLASH Step:step
{:
  if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    RESULT = step;    // Remove './' from the middle
  }
  else if (((Step) step).isAbbreviatedDot()) {
    RESULT = rlp;    // Remove './' from the end
  }
  else {
    RESULT =
      new ParentLocationPath((RelativeLocationPath) rlp, step);
  }
:}

| AbbreviatedRelativeLocationPath:arlp

```

```
{: RESULT = arlp; :};
```

```
AbsoluteLocationPath ::= SLASH
```

```
{: RESULT = new AbsoluteLocationPath(); :}
```

```
| SLASH RelativeLocationPath:rlp
```

```
{: RESULT = new AbsoluteLocationPath(rlp); :}
```

```
| AbbreviatedAbsoluteLocationPath:aalp
```

```
{: RESULT = aalp; :};
```

```
AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
```

```
{:
```

```
final Step right = (Step)step;
```

```
final int axis = right.getAxis();
```

```
final int type = right.getNodeType();
```

```
final Vector predicates = right.getPredicates();
```

```
if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
```

```
    // Compress '//child:E' into 'descendant::E' - if possible
```

```
    if (predicates == null) {
```

```
        right.setAxis(Axis.DESCE
```

```
        if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
```

```
            RESULT = right;
```

```
        }
```

```
    } else {
```

```
        // Expand 'rlp//child::E' into 'rlp/descendant::E'
```

```
        RelativeLocationPath left = (RelativeLocationPath)rlp;
```

```
        RESULT = new ParentLocationPath(left, right);
```

```
    }
```

```
}
```

```
else {
```

```
    // Expand '//step' -> 'descendant-or-self::*step'
```

```
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
```

```
        Step left = new Step(Axis.DESCE
```

```
DTM.ELEMENT_NODE, null);
```

```
        RESULT = new ParentLocationPath(left, right);
```

```
    }
```

```
    } else {
```

```
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*step'
```

```
        RelativeLocationPath left = (RelativeLocationPath)rlp;
```

```
        Step mid = new Step(Axis.DESCE
```

```
DTM.ELEMENT_NODE, null);
```

```
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
```

```
        RESULT = new ParentLocationPath(left, ppl);
```

```
    }
```

```
}
```

```
}
```

```

else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
};

```

AbbreviatedAbsolutePath ::= DSLASH RelativeLocationPath:rlp

```

{:
    //
    // Expand '/' into '/descendant-or-self::node()' or
    // into '/descendant-or-self::*/'
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
        parser.isElementAxis(((Step) rlp).getAxis()))
    {
        nodeType = DTM.ELEMENT_NODE;
    }
    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    RESULT = new AbsoluteLocationPath(parser.insertStep(step,
(RelativeLocationPath) rlp));
};

```

Step ::= NodeTest:ntest

```

{:
    if (ntest instanceof Step) {
        RESULT = (Step)ntest;
    }
    else {
        RESULT = new Step(Axis.CHILD,
            parser.findNodeType(Axis.CHILD, ntest),
            null);
    }
};

```

```

| NodeTest:ntest Predicates:pp
{:
  if (ntest instanceof Step) {
    Step step = (Step)ntest;
    step.addPredicates(pp);
    RESULT = (Step)ntest;
  }
  else {
    RESULT = new Step(Axis.CHILD,
      parser.findNodeType(Axis.CHILD, ntest), pp);
  }
:}

```

```

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
{: RESULT = new Step(axis.intValue(),
  parser.findNodeType(axis.intValue(), ntest),
  pp);
:}

```

```

| AxisSpecifier:axis NodeTest:ntest
{: RESULT = new Step(axis.intValue(),
  parser.findNodeType(axis.intValue(), ntest),
  null);
:}

```

```

| AbbreviatedStep:abbrev
{: RESULT = abbrev; :};

```

```

AxisSpecifier ::= AxisName:an DCOLON
{: RESULT = an; :}

```

```

| ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

```

```

AxisName ::= ANCESTOR
{: RESULT = new Integer(Axis.ANCESTOR); :}

```

```

| ANCESTORORSELF
{: RESULT = new Integer(Axis.ANCESTORORSELF); :}

```

```

| ATTRIBUTE
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

```

```

| CHILD
{: RESULT = new Integer(Axis.CHILD); :}

```

```

| DESCENDANT
{: RESULT = new Integer(Axis.DESCEMENDANT); :}

```

```
| DESCENDANTORSELF
{: RESULT = new Integer(Axis.DECENDANTORSELF); ;}
```

```
| FOLLOWING
{: RESULT = new Integer(Axis.FOLLOWING); ;}
```

```
| FOLLOWINGSIBLING
{: RESULT = new Integer(Axis.FOLLOWINGSIBLING); ;}
```

```
| NAMESPACE
{: RESULT = new Integer(Axis.NAMESPACE); ;}
```

```
| PARENT
{: RESULT = new Integer(Axis.PARENT); ;}
```

```
| PRECEDING
{: RESULT = new Integer(Axis.PRECEDING); ;}
```

```
| PRECEDINGSIBLING
{: RESULT = new Integer(Axis.PRECEDINGSIBLING); ;}
```

```
| SELF
{: RESULT = new Integer(Axis.SELF); ;};
```

```
AbbreviatedStep ::= DOT
{: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); ;}
```

```
| DDOT
{: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); ;};
```

```
FilterExpr ::= PrimaryExpr:primary
{: RESULT = primary; ;}
```

```
| PrimaryExpr:primary Predicates:pp
{: RESULT = new FilterExpr(primary, pp); ;};
```

```
PrimaryExpr ::= VariableReference:vr
{: RESULT = vr; ;}
```

```
| LPAREN Expr:ex RPAREN
{: RESULT = ex; ;}
```

```
| Literal:string
```

```
{:  
/*
```

```
* If the string appears to have the syntax of a QName, store
```

```
* namespace info in the literal expression. This is used for
```



```

* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);
:}

| INT:num
{:
    long value = num.longValue();
    if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
RESULT = new RealExpr(value);
    }
    else {
        if (num.doubleValue() == -0)
            RESULT = new RealExpr(num.doubleValue());
        else if (num.intValue() == 0)
            RESULT = new IntExpr(num.intValue());
        else if (num.doubleValue() == 0.0)
            RESULT = new RealExpr(num.doubleValue());
        else
            RESULT = new IntExpr(num.intValue());
    }
:}

| REAL:num
{: RESULT = new RealExpr(num.doubleValue()); :}

| FunctionCall:fc
{: RESULT = fc; :};

```

```

VariableReference ::= DOLLAR VariableName:varName
{:
    // An empty qname prefix for a variable or parameter reference
    // should map to the null namespace and not the default URI.
    SyntaxTreeNode node = parser.lookupName(varName);

    if (node != null) {
        if (node instanceof Variable) {
            RESULT = new VariableRef((Variable)node);
        }
    }
:}

```

```

else if (node instanceof Param) {
    RESULT = new ParameterRef((Param)node);
}
else {
    RESULT = new UnresolvedRef(varName);
}
}

if (node == null) {
    RESULT = new UnresolvedRef(varName);
}
};

```

FunctionCall ::= FunctionName:fname LPAREN RPAREN

```

{:
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
        RESULT = new BooleanExpr(true);
    }
    else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
        RESULT = new BooleanExpr(false);
    }
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
        RESULT = new PositionCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
        RESULT = new LastCall(fname);
    }
}

```

```

}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
:}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
{:
if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}
}

```

```

else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xslt", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}

```

```
};
```

```
NonemptyArgumentList ::= Argument:arg
```

```
{:  
  Vector temp = new Vector();  
  temp.addElement(arg);  
  RESULT = temp;  
:}
```

```
| Argument:arg COMMA NonemptyArgumentList:argl  
{: argl.insertElementAt(arg, 0); RESULT = argl; :};
```

```
FunctionName ::= QName:fname
```

```
{:  
  RESULT = fname;  
:};
```

```
VariableName ::= QName:vname
```

```
{:  
  RESULT = vname;  
:};
```

```
Argument ::= Expr:ex
```

```
{: RESULT = ex; :};
```

```
NodeTest ::= NameTest:nt
```

```
{: RESULT = nt; :}
```

```
| NODE
```

```
{: RESULT = new Integer(NodeTest.ANODE); :}
```

```
| TEXT
```

```
{: RESULT = new Integer(NodeTest.TEXT); :}
```

```
| COMMENT
```

```
{: RESULT = new Integer(NodeTest.COMMENT); :}
```

```
| PIPARAM LPAREN Literal:l RPAREN
```

```
{:  
  QName name = parser.getQNameIgnoreDefaultNs("name");  
  Expression exp = new EqualityExpr(Operators.EQ,  
    new NameCall(name),  
    new LiteralExpr(l));  
  Vector predicates = new Vector();  
  predicates.addElement(new Predicate(exp));  
  RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);  
:}
```

```

| PI
{: RESULT = new Integer(NodeTest.PI); :}

NameTest ::= STAR
    {: RESULT = null; :}

    | QName:qn
    {: RESULT = qn; :}

QName ::= QName:qname
    {: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

| DIV
{: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

| MOD
{: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

| KEY
{: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

| ANCESTOR
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| ANCESTORORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

| ATTRIBUTE
{: RESULT = parser.getQNameIgnoreDefaultNs("attribute"); :}

| CHILD
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| DESCENDANT
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

| DESCENDANTORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

| FOLLOWING
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

| FOLLOWINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

| NAMESPACE
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

```

```
| PARENT
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

| PRECEDING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

| PRECEDINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

| SELF
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

| ID
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.cup
```

No license file was found, but licenses were detected in source scan.

```
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
// is found, then throw a special exception in order to terminate
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/TransformerFactoryImpl.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 2002 World Wide Web Consortium,
* (Massachusetts Institute of Technology, Institut National de
* Recherche en Informatique et en Automatique, Keio University). All
```

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*/

Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.

*/

/**

* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncDoclocation.java
No license file was found, but licenses were detected in source scan.

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```

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
*
*/

package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;
%%
%cup
%unicode
%class XPathLexer
%yyeof

%{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '\t' || c == '\r' || c == '\n' || c == '\f');
    }
}

/**
 * If symbol is not followed by ':' or '(', then treat it as a
 * name instead of an axis or function (Jira-1912).
 */
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

```

```

// Skip whitespace
while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
    index++;
}

// If end of buffer, can't disambiguate :(
if (index >= yy_buffer_read) {
    // Can't disambiguate, so return as symbol
    return new Symbol(ss);
}

// Return symbol if next token is ':' or '('
return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
        yy_buffer[index] == '(') ?
        newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1: // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
    case sym.DSLASH:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.QNAME, yytext());
    }
}

```

```

    return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
        case -1: // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.STAR);
    }
    return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {

```

```

    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
% }

%eofval{
return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-
\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-
\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-
\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-
\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-
\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-
\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-
\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-
\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-
\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-
\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-
\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-
\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-
\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-
\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-
\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-
\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-
\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-
\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-
\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-
\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-
\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-
\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u309A\u30A1-
\u30FA\u3105-\u312C\uAC00-\uD7A3]

```

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]

CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]

Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"_"|{NCNameStartChar})({NCNameChar})*

NCNameChar={Letter}|{Digit}|"."-|_|_|{CombiningChar}|{Extender}|{NCNameStartChar}| \u00B7 | [\u0300-\u036F] | [\u203F-\u2040] | [\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFD] | \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

```
"*"      { return disambiguateStar(); }
"/"      { return newSymbol(sym.SLASH); }
"+"      { return newSymbol(sym.PLUS); }
"-"      { return newSymbol(sym.MINUS); }
"div"    { return disambiguateOperator(sym.DIV); }
"mod"    { return disambiguateOperator(sym.MOD); }
"::"     { return newSymbol(sym.DCOLON); }
","      { return newSymbol(sym.COMMA); }
"@       { return newSymbol(sym.ATSIGN); }
".."     { return newSymbol(sym.DDOT); }
"|"      { return newSymbol(sym.VBAR); }
"$"      { return newSymbol(sym.DOLLAR); }
```

```

"/"          { return newSymbol(sym.DSLASH); }
"="          { return newSymbol(sym.EQ); }
"!="         { return newSymbol(sym.NE); }
"<"         { return newSymbol(sym.LT); }
">"         { return newSymbol(sym.GT); }
"<="        { return newSymbol(sym.LE); }
">="        { return newSymbol(sym.GE); }
"id"         { return disambiguateAxisOrFunction(sym.ID); }
"key"        { return disambiguateAxisOrFunction(sym.KEY); }
"text()"     { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()" { return newSymbol(sym.TEXT); }
"node()"     { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()" { return newSymbol(sym.NODE); }
"comment()"  { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()" { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"         { return disambiguateOperator(sym.OR); }
"and"        { return disambiguateOperator(sym.AND); }
"child"      { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"  { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"   { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"  { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace"  { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"     { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"  { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"       { return disambiguateAxisOrFunction(sym.SELF); }
"["          { return newSymbol(sym.LBRACK); }
"]"          { return newSymbol(sym.RBRACK); }
"("          { return newSymbol(sym.LPAREN); }
")"          { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\"   { return newSymbol(sym.Literal,
    yytext().substring(1, yytext().length() - 1)); }
\"[^\']*\"   { return newSymbol(sym.Literal,
    yytext().substring(1, yytext().length() - 1)); }
{Digit}+    { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+(\."{Digit}*)? { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+ { return newSymbol(sym.REAL, new Double(yytext())); }
"."         { return newSymbol(sym.DOT); }
({NCName}":")?{NCName} { return newSymbol(sym.QNAME, yytext()); }

```

```

({NCName}":")?"*"      { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"@*"     { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f]           { /* ignore white space. */ }
.                      { throw new Exception(yytext()); }

```

Found in path(s):

```

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.lex

```

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* limitations under the License.
*/
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
* Administrative class to keep track of the version number of
* the Xalan release.
* <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()
* @xsl.usage general
*/
public class XSLProcessorVersion
{

/**
* Print the processor version to the command line.
*
* @param argv command line arguments, unused.
*/
public static void main(String argv[])

```

```

{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 *     significant, externally apparent enhancement from
 *     the previous release. 'n' represents the n'th
 *     version.
 *
 *     Clients should carefully consider the implications
 *     of new versions as external interfaces and behaviour
 *     may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 *     - a new set of functionality is to be added, eg,
 *       implementation of a new W3C specification.
 *     - API or behaviour change.
 *     - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *     drop applied to a specific release and contains
 *     fixes for defects reported. It maintains compatibility
 *     with the release and contains no API changes.
 *     When missing, it designates the final and complete
 *     development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

```



```

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd] <B>D</B>nn]"</CODE>.
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
    +VERSION+"."+RELEASE+"."
    +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
    : (""+MAINTENANCE));
}

```

Found in path(s):

```

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.src

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Found in path(s):

- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html

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*/
// Proprietary, built in functions
/** current function string (Proprietary). */

Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/Keywords.java

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*/

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/QueuedEvents.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/XslAttribute.java

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- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMConstants.java
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/ExpandedNameTable.java
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/QName.java
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMManager.java
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/GenerateIdCall.java
- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/QName.java
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- * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMWSFilter.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ConcatCall.java

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1.559 fs-write-stream-atomic 1.0.10

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1.567 zjsonpatch 0.4.11

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1.569 css-selector-parser 1.4.1

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Additional -

File: PSReadLine

<https://github.com/lzybkr/PSReadLine>

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File: Hashtables from ConvertFrom-json

<https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h>

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1.571 jmock 2.5.1

1.572 cglib 3.3.0

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*/
```

```
/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
```

```
* Parses trees created by ANTLRParser.g.
```

```
*
```

```
* Rather than have multiple tree grammars, one for each visit, I'm
* creating this generic visitor that knows about context. All of the
* boilerplate pattern recognition is done here. Then, subclasses can
* override the methods they care about. This prevents a lot of the same
* context tracking stuff like "set current alternative for current
* rule node" that is repeated in lots of tree filters.
```

```
*/
```

```
tree grammar GrammarTreeVisitor;
```

```
options {
```

```
language    = Java;
```

```
tokenVocab  = ANTLRParser;
```

```
ASTLabelType = GrammarAST;
```

```
}
```

```
// Include the copyright in this source and also the generated source
```

```
@header {
```

```
/*
```

```
[The "BSD license"]
```

```
Copyright (c) 2011 Terence Parr
```

```
All rights reserved.
```

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*/

```
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
    CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
    setTreeNodeStream(nodes);
    try {
        Method m = getClass().getMethod(ruleName);
        m.invoke(this);
    }
    catch (Throwable e) {
        ErrorManager errMgr = getErrorManager();
        if ( e instanceof InvocationTargetException ) {
            e = e.getCause();
        }
        //e.printStackTrace(System.err);
        if ( errMgr==null ) {
            System.err.println("can't find rule "+ruleName+
                " or tree structure error: "+t.toStringTree()
            );
        }
    }
}
```

```

    e.printStackTrace(System.err);
}
else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
}
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    ActionAST arg, ActionAST returns, GrammarAST thrws,
    GrammarAST options, ActionAST locals,
    List<GrammarAST> actions,
    GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

```

```
protected void enterGrammarSpec(GrammarAST tree) { }  
protected void exitGrammarSpec(GrammarAST tree) { }
```

```
protected void enterPrequelConstructs(GrammarAST tree) { }  
protected void exitPrequelConstructs(GrammarAST tree) { }
```

```
protected void enterPrequelConstruct(GrammarAST tree) { }  
protected void exitPrequelConstruct(GrammarAST tree) { }
```

```
protected void enterOptionsSpec(GrammarAST tree) { }  
protected void exitOptionsSpec(GrammarAST tree) { }
```

```
protected void enterOption(GrammarAST tree) { }  
protected void exitOption(GrammarAST tree) { }
```

```
protected void enterOptionValue(GrammarAST tree) { }  
protected void exitOptionValue(GrammarAST tree) { }
```

```
protected void enterDelegateGrammars(GrammarAST tree) { }  
protected void exitDelegateGrammars(GrammarAST tree) { }
```

```
protected void enterDelegateGrammar(GrammarAST tree) { }  
protected void exitDelegateGrammar(GrammarAST tree) { }
```

```
protected void enterTokensSpec(GrammarAST tree) { }  
protected void exitTokensSpec(GrammarAST tree) { }
```

```
protected void enterTokenSpec(GrammarAST tree) { }  
protected void exitTokenSpec(GrammarAST tree) { }
```

```
protected void enterChannelsSpec(GrammarAST tree) { }  
protected void exitChannelsSpec(GrammarAST tree) { }
```

```
protected void enterChannelSpec(GrammarAST tree) { }  
protected void exitChannelSpec(GrammarAST tree) { }
```

```
protected void enterAction(GrammarAST tree) { }  
protected void exitAction(GrammarAST tree) { }
```

```
protected void enterRules(GrammarAST tree) { }  
protected void exitRules(GrammarAST tree) { }
```

```
protected void enterMode(GrammarAST tree) { }  
protected void exitMode(GrammarAST tree) { }
```

```
protected void enterLexerRule(GrammarAST tree) { }  
protected void exitLexerRule(GrammarAST tree) { }
```

```
protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }
protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }
```

protected void enterLabeledLexerElement(GrammarAST tree) { }

protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }

protected void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }

protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }

protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }

protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }

protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }

protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }

protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }

protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }

protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }

protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }

protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }

protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }

protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }

protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }

protected void exitBlockSet(GrammarAST tree) { }

```
protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }
```

```
protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }
```

```
protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }
```

```
protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }
```

```
protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }
```

```
protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }
```

```
protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }
```

```
@Override
```

```
public void traceIn(String ruleName, int ruleIndex) {
    System.err.println("enter "+ruleName+": "+input.LT(1));
}
```

```
@Override
```

```
public void traceOut(String ruleName, int ruleIndex) {
    System.err.println("exit "+ruleName+": "+input.LT(1));
}
}
```

```
grammarSpec
```

```
@init {
```

```
    enterGrammarSpec($start);
```

```
}
```

```
@after {
```

```
    exitGrammarSpec($start);
```

```
}
```

```
: ^( GRAMMAR ID {grammarName=$ID.text;} 
```

```
    {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);} 
```

```
    prequelConstructs 
```

```
    {finishPrequels($prequelConstructs.firstOne);} 
```

```
    rules mode* 
```

```
    {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);} 
```

```
) 
```

```
;
```

prequelConstructs returns [GrammarAST firstOne=null]

```
@init {
  enterPrequelConstructs($start);
}
@after {
  exitPrequelConstructs($start);
}
: {$firstOne=$start;} prequelConstruct+
|
;
```

prequelConstruct

```
@init {
  enterPrequelConstructs($start);
}
@after {
  exitPrequelConstructs($start);
}
: optionsSpec
| delegateGrammars
| tokensSpec
| channelsSpec
| action
;
```

optionsSpec

```
@init {
  enterOptionsSpec($start);
}
@after {
  exitOptionsSpec($start);
}
: ^(OPTIONS option*)
;
```

option

```
@init {
  enterOption($start);
  boolean rule = inContext("RULE ...");
  boolean block = inContext("BLOCK ...");
}
@after {
  exitOption($start);
}
: ^(a=ASSIGN ID v=optionValue)
{
  if ( block ) blockOption($ID, $v.start); // most specific first
}
```



```
    else if ( rule ) ruleOption($ID, $v.start);
    else grammarOption($ID, $v.start);
  }
;
```

optionValue returns [String v]

```
@init {
  enterOptionValue($start);
  $v = $start.token.getText();
}
@after {
  exitOptionValue($start);
}
: ID
| STRING_LITERAL
| INT
;
```

delegateGrammars

```
@init {
  enterDelegateGrammars($start);
}
@after {
  exitDelegateGrammars($start);
}
: ^(IMPORT delegateGrammar+)
```

delegateGrammar

```
@init {
  enterDelegateGrammar($start);
}
@after {
  exitDelegateGrammar($start);
}
: ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
| id=ID {importGrammar(null, $id);}
;
```

tokensSpec

```
@init {
  enterTokensSpec($start);
}
@after {
  exitTokensSpec($start);
}
: ^(TOKENS_SPEC tokenSpec+)
```

```
tokenSpec
@init {
  enterTokenSpec($start);
}
@after {
  exitTokenSpec($start);
}
: ID {defineToken($ID);}
;
```

```
channelsSpec
@init {
  enterChannelsSpec($start);
}
@after {
  exitChannelsSpec($start);
}
: ^(CHANNELS channelSpec+)
;
```

```
channelSpec
@init {
  enterChannelSpec($start);
}
@after {
  exitChannelSpec($start);
}
: ID {defineChannel($ID);}
;
```

```
action
@init {
  enterAction($start);
}
@after {
  exitAction($start);
}
: ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
;
```

```
rules
@init {
  enterRules($start);
}
@after {
  exitRules($start);
}
;
```

```

: ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
;

mode
@init {
  enterMode($start);
}
@after {
  exitMode($start);
}
: ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
;

lexerRule
@init {
  enterLexerRule($start);
  List<GrammarAST> mods = new ArrayList<GrammarAST>();
  currentOuterAltNumber=0;
}
@after {
  exitLexerRule($start);
}
: ^( RULE TOKEN_REF
  {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
  (^ (RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
  {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
  lexerRuleBlock
  {
    finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
    currentRuleName=null; currentRuleAST=null;
  }
  )
;

rule
@init {
  enterRule($start);
  List<GrammarAST> mods = new ArrayList<GrammarAST>();
  List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
  currentOuterAltNumber=0;
}
@after {
  exitRule($start);
}
: ^ ( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
  (^ (RULEMODIFIERS (m=ruleModifier {mods.add($m.start);})+))?
  ARG_ACTION?
  ret=ruleReturns?

```

```

    thr=throwsSpec?
    loc=locals?
    ( opts=optionsSpec
    | a=ruleAction { actions.add($a.start);}
    )*
    {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
        $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
        $thr.start, $opts.start,
        $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
        actions, (GrammarAST)input.LT(1));}
    ruleBlock exceptionGroup
    {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
    )
;

exceptionGroup
@init {
    enterExceptionGroup($start);
}
@after {
    exitExceptionGroup($start);
}
: exceptionHandler* finallyClause?
;

exceptionHandler
@init {
    enterExceptionHandler($start);
}
@after {
    exitExceptionHandler($start);
}
: ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
;

finallyClause
@init {
    enterFinallyClause($start);
}
@after {
    exitFinallyClause($start);
}
: ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
;

locals
@init {
    enterLocals($start);
}

```

```
}  
@after {  
  exitLocals($start);  
}  
: ^(LOCALS ARG_ACTION)  
;
```

```
ruleReturns  
@init {  
  enterRuleReturns($start);  
}  
@after {  
  exitRuleReturns($start);  
}  
: ^(RETURNS ARG_ACTION)  
;
```

```
throwsSpec  
@init {  
  enterThrowsSpec($start);  
}  
@after {  
  exitThrowsSpec($start);  
}  
: ^(THROWS ID+)  
;
```

```
ruleAction  
@init {  
  enterRuleAction($start);  
}  
@after {  
  exitRuleAction($start);  
}  
: ^(AT ID ACTION)  
;
```

```
ruleModifier  
@init {  
  enterRuleModifier($start);  
}  
@after {  
  exitRuleModifier($start);  
}  
: PUBLIC  
  | PRIVATE  
  | PROTECTED  
  | FRAGMENT
```

```

;

lexerRuleBlock
@init {
  enterLexerRuleBlock($start);
}
@after {
  exitLexerRuleBlock($start);
}
: ^( BLOCK
  ( {
    currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
  }
  lexerOuterAlternative
  )+
  )
;

```

```

ruleBlock
@init {
  enterRuleBlock($start);
}
@after {
  exitRuleBlock($start);
}
: ^( BLOCK
  ( {
    currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
  }
  outerAlternative
  )+
  )
;

```

```

lexerOuterAlternative
@init {
  enterLexerOuterAlternative((AltAST)$start);
  discoverOuterAlt((AltAST)$start);
}
@after {
  finishOuterAlt((AltAST)$start);
  exitLexerOuterAlternative((AltAST)$start);
}
: lexerAlternative
;

```

```

outerAlternative
@init {
  enterOuterAlternative((AltAST)$start);
  discoverOuterAlt((AltAST)$start);
}
@after {
  finishOuterAlt((AltAST)$start);
  exitOuterAlternative((AltAST)$start);
}
: alternative
;

```

```

lexerAlternative
@init {
  enterLexerAlternative($start);
}
@after {
  exitLexerAlternative($start);
}
: ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
  | lexerElements
;

```

```

lexerElements
@init {
  enterLexerElements($start);
}
@after {
  exitLexerElements($start);
}
: ^(ALT lexerElement+)
;

```

```

lexerElement
@init {
  enterLexerElement($start);
}
@after {
  exitLexerElement($start);
}
: labeledLexerElement
  | lexerAtom
  | lexerSubrule
  | ACTION    {actionInAlt((ActionAST)$ACTION);}
  | SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
  | ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
  | ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}

```

| EPSILON

;

labeledLexerElement

@init {

enterLabeledLexerElement(\$start);

}

@after {

exitLabeledLexerElement(\$start);

}

: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))

;

lexerBlock

@init {

enterLexerBlock(\$start);

}

@after {

exitLexerBlock(\$start);

}

: ^(BLOCK optionsSpec? lexerAlternative+)

;

lexerAtom

@init {

enterLexerAtom(\$start);

}

@after {

exitLexerAtom(\$start);

}

: terminal

| ^(NOT blockSet)

| blockSet

| ^(WILDCARD elementOptions)

| WILDCARD

| LEXER_CHAR_SET

| range

| ruleref

;

actionElement

@init {

enterActionElement(\$start);

}

@after {

exitActionElement(\$start);

}

: ACTION


```
| ^(ACTION elementOptions)
| SEMPRED
| ^(SEMPRED elementOptions)
;
```

alternative

```
@init {
  enterAlternative((AltAST)$start);
  discoverAlt((AltAST)$start);
}
@after {
  finishAlt((AltAST)$start);
  exitAlternative((AltAST)$start);
}
: ^(ALT elementOptions? element+)
| ^(ALT elementOptions? EPSILON)
;
```

lexerCommand

```
@init {
  enterLexerCommand($start);
}
@after {
  exitLexerCommand($start);
}
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
| ID
  {lexerCommand(currentOuterAltNumber, $ID);}
;
```

lexerCommandExpr

```
@init {
  enterLexerCommandExpr($start);
}
@after {
  exitLexerCommandExpr($start);
}
: ID
| INT
;
```

element

```
@init {
  enterElement($start);
}
@after {
  exitElement($start);
}
```

```

}
: labeledElement
| atom
| subrule
| ACTION    {actionInAlt((ActionAST)$ACTION);}
| SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| range
| ^(NOT blockSet)
| ^(NOT block)
;

astOperand
@init {
  enterAstOperand($start);
}
@after {
  exitAstOperand($start);
}
: atom
| ^(NOT blockSet)
| ^(NOT block)
;

labeledElement
@init {
  enterLabeledElement($start);
}
@after {
  exitLabeledElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
;

subrule
@init {
  enterSubrule($start);
}
@after {
  exitSubrule($start);
}
: ^(blockSuffix block)
| block
;

lexerSubrule
@init {

```

```
enterLexerSubrule($start);
}
@after {
exitLexerSubrule($start);
}
: ^(blockSuffix lexerBlock)
| lexerBlock
;
```

```
blockSuffix
@init {
enterBlockSuffix($start);
}
@after {
exitBlockSuffix($start);
}
: ebnfSuffix
;
```

```
ebnfSuffix
@init {
enterEbnfSuffix($start);
}
@after {
exitEbnfSuffix($start);
}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;
```

```
atom
@init {
enterAtom($start);
}
@after {
exitAtom($start);
}
: ^(DOT ID terminal)
| ^(DOT ID ruleref)
| ^(WILDCARD elementOptions) { wildcardRef($WILDCARD);}
| WILDCARD {wildcardRef($WILDCARD);}
| terminal
| blockSet
| ruleref
;
```

```
blockSet
```

```

@init {
  enterBlockSet($start);
}
@after {
  exitBlockSet($start);
}
: ^(SET setElement+)
;

setElement
@init {
  enterSetElement($start);
}
@after {
  exitSetElement($start);
}
: ^(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
}
| LEXER_CHAR_SET
;

block
@init {
  enterBlock($start);
}
@after {
  exitBlock($start);
}
: ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
;

ruleref
@init {
  enterRuleref($start);
}
@after {
  exitRuleref($start);
}
: ^(RULE_REF arg=ARG_ACTION? elementOptions?)
{
  ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
}

```

```

    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
    }
;

range
@init {
    enterRange($start);
}
@after {
    exitRange($start);
}
: ^(RANGE STRING_LITERAL STRING_LITERAL)
;

terminal
@init {
    enterTerminal($start);
}
@after {
    exitTerminal($start);
}
: ^(STRING_LITERAL elementOptions)
    {stringRef((TerminalAST)$STRING_LITERAL);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
;

elementOptions
@init {
    enterElementOptions($start);
}
@after {
    exitElementOptions($start);
}
: ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
;

elementOption[GrammarASTWithOptions t]
@init {
    enterElementOption($start);
}
@after {
    exitElementOption($start);
}
: ID {elementOption(t, $ID, null);}
| ^(ASSIGN id=ID v=ID) {elementOption(t, $id, $v);}
| ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}

```

```
| ^(ASSIGN ID v=ACTION) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=INT) {elementOption(t, $ID, $v);}
;
```

Found in path(s):

```
*/opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/parse/GrammarTreeVisitor.g
```

No license file was found, but licenses were detected in source scan.

```
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 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
```

```
SwiftTypeInitMap ::= [
  "Int": "0",
  "Int64": "0",
  "Float": "0.0",
  "Double": "0.0",
  "Bool": "false",
  default: "nil" // anything other than a primitive type is an object
]
```

```

SwiftTypeMap ::= [
  "int":"Int",
  "float":"Float",
  "long":"Int64",
  "double":"Double",
  "bool":"Bool",
  "boolean":"Bool",
  default : key
]
// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\\"open\\">"
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\\"public\\">"

```

```

ParserFile(file, parser, namedActions,contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

```

```

/**
 * This interface defines a complete listener for a parse tree produced by
 * { @link <file.parserName> }.
 */
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
  <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
 * Enter a parse tree produced by the { @code <lname>}
 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>} .
<else>
 * Enter a parse tree produced by { @link <file.parserName>#<lname>} .
<endif>
- Parameters:
  - ctx: the parse tree

```

```

*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the { @code <lname>\}
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by { @link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context}); separator="\n"
}
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>

```

```
import Antlr4
```

```

/**
* This class provides an empty implementation of { @link <file.grammarName>Listener },
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
  <accessLevelNotOpen(file)> init() { \}
  <file.listenerNames: {lname |

/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;

```



```

format="cap">Context) { \}); separator="\n">

/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) { }
/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) { }
/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by { @link <file.parserName>}.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
  <file.visitorNames:{ Iname |
/**
<if(file.visitorLabelRuleNames.(Iname))>

```

```

* Visit a parse tree produced by the { @code <lname>\}
* labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
* Visit a parse tree produced by { @link <file.parserName>#<lname>\}.
<endif>
- Parameters:
- ctx: the parse tree
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T {
    fatalError(#function + " must be overridden")
}
}; separator="\n">
}
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This class provides an empty implementation of { @link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use { @link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
    <file.visitorNames:{lname |
/**
* { @inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* { @link #visitChildren\} on { @code ctx\}.\</p>
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return visitChildren(ctx) \}; separator="\n">
}
>>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>

```

>>

```
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<  
<Parser_(ctor="parser_ctor", ...)>
```

>>

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<  
<!--@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>  
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {
```

```
    internal static var _decisionToDFA: [DFA] = {  
        var decisionToDFA = [DFA]()  
        let length = <parser.name>._ATN.getNumberOfDecisions()  
        for i in 0..\<length {  
            <!-- decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!, i)!>  
            decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))  
        }  
        return decisionToDFA  
    }()  
}
```

```
internal static let _sharedContextCache = PredictionContextCache()
```

```
<if(parser.tokens)>  
<accessLevelNotOpen(parser)>  
enum Tokens: Int {  
    case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>  
}  
<endif>
```

```
<accessLevelNotOpen(parser)>  
static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
```

```
<accessLevelNotOpen(parser)>  
static let ruleNames: [String] = [  
    <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>  
]
```

```
<vocabulary(parser.literalNames, parser.symbolicNames,  
    accessLevelNotOpen(parser))>
```

```
override <accessLevelOpenOK(parser)>  
func getGrammarFileName() -> String { return "<parser.grammarFileName; format="java-escape">" }
```

```
override <accessLevelOpenOK(parser)>  
func getRuleNames() -> [String] { return <parser.name>.ruleNames }
```

```
override <accessLevelOpenOK(parser)>  
func getSerializedATN() -> String { return <parser.name>._serializedATN }
```

```

override <accessLevelOpenOK(parser)>
func getATN() -> ATN { return <parser.name>._ATN }

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool {
switch (ruleIndex) {
<parser.sempredFuncs.values:{f}
case <f.ruleIndex>:
return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)); separator="\n">
default: return true
}
<!return true;!>
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>

<accessLevelNotOpen(parser)>
static let _serializedATN = <parser.name>ATN().jsonString

<accessLevelNotOpen(parser)>
static let _ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames, accessLevel) ::= <<
private static let _LITERAL_NAMES: [String?] = [
<literalNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
<symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx: RuleContext?, _ ruleIndex: Int, _ actionIndex: Int) throws {
switch (ruleIndex) {

```

```

    <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
    <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
    }; separator="\n">
default: break
    }
    }
    <actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool {
    switch (ruleIndex) {
    <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)); separator="\n">
default: return true
    }
    <!return true;!>
    }
    <sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
    return <p.name>.VOCABULARY
    }

override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
    RuntimeMetaData.checkVersion("4.7.2", RuntimeMetaData.VERSION)
    try super.init(input)
    _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
    <p.name>._sharedContextCache)
    }

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?, _ actionIndex: Int) {
    switch (actionIndex) {
    <actions:{index|

```

```

case <index>:
<actions.(index)>
}; separator="\n">
default: break
}
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ _localctx: <r.ctxType>!, _ predIndex: Int) throws -> Bool {
switch (predIndex) {
<actions:{index|
case <index>:return <actions.(index)>}; separator="\n">
default: return true
}
<!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.name><(if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.name>}>))
try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
<namedActions.init>
<locals; separator="\n">
defer {
<finallyAction>
try! exitRule()
}
do {
<if(currentRule.hasLookaheadBlock)>
var _alt:Int
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
<if(exceptions)>
<exceptions; separator="\n">

```

```

<else>
catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
  }
<endif>

return _localctx
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.name>( <if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
  return try <currentRule.name>(0<currentRule.args:{a | , <a.name>}>)
}
@discardableResult
private func <currentRule.name>(_ _p<args:{a | , <a>}>: Int) throws -> <currentRule.ctxType> {
  let _parentctx: ParserRuleContext? = _ctx
  var _parentState: Int = getState()
  var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>))
  var _prevctx: <currentRule.ctxType> = _localctx
  var _startState: Int = <currentRule.startState>
  try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  defer {
    <finallyAction>
    try! unrollRecursionContexts(_parentctx)
  }
  do {
  <if(currentRule.hasLookaheadBlock)>
  var _alt: Int
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  catch ANTLRException.recognition(let re) {
    _localctx.exception = re

```

```

_errHandler.reportError(self, re)
try _errHandler.recover(self, re)
}

```

```

return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<!/{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!/{}!>
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(ttypes=look)>
<alt>
break }; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(ttypes=look)>
<alt>
break }; separator="\n">
default:
break
}
>>

```



```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
  <alts; separator="\n">
  setState(<choice.loopBackStateNumber>)
  try _errHandler.sync(self)
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
  <alts; separator="\n">
  setState(<choice.stateNumber>); <! loopback/exit decision !>
  try _errHandler.sync(self)
  <iteration>
} while (<loopExpr>)
>>

```

// LL(*) stuff

```

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
  <alts:{alt |
case <i>:
  <alt>
break }; separator="\n">
default: break

```

```
}  
>>
```

```
OptionalBlock(choice, alts, error) ::= <<  
  setState(<choice.stateNumber>)  
  try _errHandler.sync(self)  
  switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {  
  <alts:{alt |  
  case <i><if(!choice.ast.greedy)>+1<endif>:  
  <alt>  
  break }; separator="\n">  
  default: break  
  }  
>>
```

```
StarBlock(choice, alts, sync, iteration) ::= <<  
  setState(<choice.stateNumber>)  
  try _errHandler.sync(self)  
  _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)  
  while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {  
  if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {  
  <iteration>  
  <alts> <! should only be one !>  
  }  
  setState(<choice.loopBackStateNumber>)  
  try _errHandler.sync(self)  
  _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)  
  }  
>>
```

```
PlusBlock(choice, alts, error) ::= <<  
  setState(<choice.blockStartStateNumber>); <! alt block decision !>  
  try _errHandler.sync(self)  
  _alt = 1<if(!choice.ast.greedy)>+1<endif>;  
  repeat {  
  switch (_alt) {  
  <alts:{alt|  
  case <i><if(!choice.ast.greedy)>+1<endif>:  
  <alt>  
  break }; separator="\n">  
  default:  
  <error>  
  }  
  setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>  
  try _errHandler.sync(self)  
  _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)  
  } while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER)  
>>
```

```
Sync(s) ::= "sync(<s.expecting.name>);"
```

```
ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"
```

```
TestSetInline(s) ::= <<
```

```
<!<s.bitsets:{bits | <if(rest(rest(bits.ttypes))>><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}>; separator=" || ">!>
```

```
//closure
```

```
{ () -> Bool in
```

```
    <if(rest(s.bitsets)>>var<else>let<endif> testSet: Bool = <first(s.bitsets):{bits | <if(rest(rest(bits.ttypes))>><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}><rest(s.bitsets):{bits | testSet = testSet || <if(rest(rest(bits.ttypes))>><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}>; separator="\n">
```

```
    return testSet
```

```
}()
```

```
>>
```

```
// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
```

```
testShiftInRange(shiftAmount) ::= <<
```

```
((<shiftAmount>) & ~0x3f) == 0
```

```
>>
```

```
// produces smaller bytecode only when bits.ttypes contains more than two items
```

```
bitsetBitfieldComparison(s, bits) ::= <<
```

```
<!(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1 \<< <offsetShift(s.varName, bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)!>
```

```
{ () -> Bool in
```

```
    <! let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)>})>)!>
```

```
    <!var temp: Int64 = Int64(<offsetShift(s.varName, bits.shift)>)!>
```

```
    <!temp = (temp \< 0) ? (64 + (temp % 64)) : (temp % 64)!>
```

```
    <!let test1: Int64 = (Int64(1) \<< temp)!>
```

```
    <!var test2: Int64 = (<first(bits.ttypes):{ttype | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>)!>
```

```
    <!<rest(bits.ttypes):{ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>;
```

```
separator="\n">!>
```

```
    let testArray: [Int] = [<s.varName>, <bits.ttypes:{ttype |<parserName(ttype)>}; separator=",">]
```

```
    <!var test2: Int64 = Utils.testBitLeftShiftArray(testArray)!>
```

```
    return Utils.testBitLeftShiftArray(testArray, <bits.shift>)
```

```
}()
```

```
>>
```

```
isZero ::= [
```

```
"0": true,
```

```
default: false
```

```
]
```

```
parserName(ttype) ::= <%
```

```
<parser.name>.Tokens.<ttype>.rawValue
```

```
%>
```

```

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName> == <parser.name>.Tokens.<ttype>.rawValue}; separator=" || ">
%>

cases(ttypes) ::= <<
<trunc(ttypes): {t | case .<t>:fallthrough} ; separator="\n">
<last(ttypes): {t | case .<t>:} ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
<r.name><(if(r.ast.options.p))<r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>
  <r.labels:{l | <labelref(l)> = assignmentValue} ; separator="\n">
  }()
<else>try
<r.name><(if(r.ast.options.p))<r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks><endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
  let assignmentValue = try match(<parser.name>.Tokens.<m.name>.rawValue)
  <m.labels:{l | <labelref(l)> = assignmentValue} ; separator="\n">
  }()
<else>try match(<parser.name>.Tokens.<m.name>.rawValue)<endif>
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{l | <labelref(l)> = }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif><(<expr>)) {
  <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as
  Token<endif>
}

```

```

else {
    _errHandler.reportMatch(self)
    try consume()
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>)
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>try matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
if (!(<chunks>)) {
    throw ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>))
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg)    ::= "_type = <arg>"
LexerChannelCommand(arg) ::= "_channel = <arg>"
LexerModeCommand(arg)    ::= "_mode = <arg>"
LexerPushModeCommand(arg) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"

```

```

/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\""
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\""
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\""
RulePropertyRef_text(r) ::= "<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\""
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "(try _input.getText(_localctx.start, try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "<t.name>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.name>: Int = 0"
TokenListDecl(t) ::= "<t.name>: [Token] = [Token]()"
RuleContextDecl(r) ::= "<r.name>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.name>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"

ContextTokenGetterDecl(t) ::= <<
<accessLevelOpenOK(parser)>
func <t.name>() -> TerminalNode? {
return getToken(<parser.name>.Tokens.<t.name>.rawValue, 0)
}
>>

```

```

ContextTokenListGetterDecl(t) ::= <<
  <accessLevelOpenOK(parser)>
  func <t.name>() -> [TerminalNode] {
    return getTokens(<parser.name>.Tokens.<t.name>.rawValue)
  }
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
  <accessLevelOpenOK(parser)>
  func <t.name>(_ i: Int) -> TerminalNode? {
    return getToken(<parser.name>.Tokens.<t.name>.rawValue, i)
  }
>>

ContextRuleGetterDecl(r) ::= <<
  <accessLevelOpenOK(parser)>
  func <r.name>() -> <r.ctxName>? {
    return getRuleContext(<r.ctxName>.self, 0)
  }
>>

ContextRuleListGetterDecl(r) ::= <<
  <accessLevelOpenOK(parser)>
  func <r.name>() -> [<r.ctxName>] {
    return getRuleContexts(<r.ctxName>.self)
  }
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
  <accessLevelOpenOK(parser)>
  func <r.name>(_ i: Int) -> <r.ctxName>? {
    return getRuleContext(<r.ctxName>.self, i)
  }
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct, ctorAttrs, attrs, getters, dispatchMethods, interfaces, extensionMembers,
  superClass={ParserRuleContext}) ::= <<

```

```

<accessLevelNotOpen(parser)> class <struct.name>:
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
  <attrs:{a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
  <getters:{g | <g>}; separator="\n">
  <! <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext, _ invokingState: Int) {
super.init(parent, invokingState) }<endif> !>
  <if(ctorAttrs)>
  <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState: Int<ctorAttrs:{a | ,
_ <a>}>) {
    self.init(parent, invokingState)
  }
  <struct.ctorAttrs:{a | self.<a.name> = <a.name>;}; separator="\n">
  }
<endif>

  override <accessLevelOpenOK(parser)>
  func getRuleIndex() -> Int {
    return <parser.name>.RULE_<struct.derivedFromName>
  }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
  <! <accessLevelNotOpen(parser)> init() { }!>
  <accessLevelOpenOK(parser)>
  func copyFrom(_ ctx: <struct.name>) {
    super.copyFrom(ctx)
  }
  <struct.attrs:{a | self.<a.name> = ctx.<a.name>;}; separator="\n">
  }
<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">
  }
>>

```

```

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
<accessLevelNotOpen(parser)> class <struct.name>: <currentRule.name; format="cap">Context {
  <attrs:{a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
  <getters:{g | <g>}; separator="\n">

```

```

  <accessLevelNotOpen(parser)>
  init(_ ctx: <currentRule.name; format="cap">Context) {
    super.init()
    copyFrom(ctx)
  }
  <dispatchMethods; separator="\n">
  }
>>

```

```

ListenerDispatchMethod(method) ::= <<

```



```

override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
  if let listener = listener as? <parser.grammarName>Listener {
    listener.<if(method.isEnter)>enter<else>exit<endif><<struct.derivedFromName; format="cap">>(self)
  }
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func accept<T>(<T>(_ visitor: ParseTreeVisitor<T>) -> T? {
  if let visitor = visitor as? <parser.grammarName>Visitor {
    return visitor.visit<<struct.derivedFromName; format="cap">>(self)
  }
  else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
    return visitor.visit<<struct.derivedFromName; format="cap">>(self)
  }
  else {
    return visitor.visitChildren(self)
  }
}
}
>>

```

```

AttributeDecl(d) ::= "<d.name>: <SwiftTypeMap.(d.type)><if(d.initValue)> = <d.initValue><else>!<endif>"

```

```

/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.name>"

```

```

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

```

```

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "_ctx!.stop = try _input.LT(-1)"

```

```

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.append(_prevctx)
<else>
_localctx.<label> = _prevctx
<endif>
<endif>
<if(label)>_localctx.<label> = _prevctx;<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

```

```

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
  _localctx = <currentAltLabel; format="cap">Context( <ruleName; format="cap">Context(_parentctx,
  _parentState))
  <if(label)>
  <if(isListLabel)>
  (_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
  <else>
  (_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
  <endif>
  <endif>
  try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
  >>

```

```

recRuleReplaceContext(ctxName) ::= <<
  _localctx = <ctxName>Context(_localctx)
  _ctx = _localctx
  _prevctx = _localctx
  >>

```

```

recRuleSetPrevCtx() ::= <<
  if _parseListeners != nil {
    try triggerExitRuleEvent()
  }
  _prevctx = _localctx
  >>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
  <fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
  <if(lexerFile.genPackage)>
  <!package <lexerFile.genPackage>;!>
  <endif>
  <namedActions.header>
  import Antlr4

  <lexer>
  >>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
  <accessLevelOpenOK(lexer)> class <lexer.name>: <superClass; null="Lexer"> {

  internal static var _decisionToDFA: [DFA] = {
    var decisionToDFA = [DFA]()
    let length = <lexer.name>._ATN.getNumberOfDecisions()
    for i in 0..<length {
      <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
      decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
    }
  }

```

```

        return decisionToDFA
    }()

internal static let _sharedContextCache = PredictionContextCache()

<accessLevelNotOpen(lexer)>
static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>

<if(lexer.channels)>
<accessLevelNotOpen(lexer)>
static let <lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>
<endif>
<if(rest(lexer.modes))>
<accessLevelNotOpen(lexer)>
static let <rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>
<endif>
<accessLevelNotOpen(lexer)>
static let channelNames: [String] = [
    "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c | "<c>"}; separator=", ",
wrap, anchor<endif>
]

<accessLevelNotOpen(lexer)>
static let modeNames: [String] = [
    <lexer.modes:{m | "<m>"}; separator=", ", wrap, anchor>
]

<accessLevelNotOpen(lexer)>
static let ruleNames: [String] = [
    <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(lexer.literalNames, lexer.symbolicNames,
    accessLevelNotOpen(lexer))>

<namedActions.members>

override <accessLevelOpenOK(lexer)>
func getVocabulary() -> Vocabulary {
    return <lexer.name>.VOCABULARY
}

<accessLevelNotOpen(lexer)>
required init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
    super.init(input)
    _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)

```

```

}

override <accessLevelOpenOK(lexer)>
func getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

override <accessLevelOpenOK(lexer)>
func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

override <accessLevelOpenOK(lexer)>
func getSerializedATN() -> String { return <lexer.name>._serializedATN }

override <accessLevelOpenOK(lexer)>
func getChannelNames() -> [String] { return <lexer.name>.channelNames }

override <accessLevelOpenOK(lexer)>
func getModeNames() -> [String] { return <lexer.name>.modeNames }

override <accessLevelOpenOK(lexer)>
func getATN() -> ATN { return <lexer.name>._ATN }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>

<accessLevelNotOpen(lexer)>
static let _serializedATN: String = <lexer.name>ATN().jsonString

<accessLevelNotOpen(lexer)>
static let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

/** Don't need to define anything. The tool generates a XParserATN.swift file (and same for lexer)
 * which is referenced from static field _serializedATN. This json string is passed to
 * deserializeFromJson(). Note this is not the "serialization as array of ints" that other targets
 * do. It is more or less the output of ATNPrinter which gets read back in.
 */
SerializedATN(model) ::= <<
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<SwiftTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".swift"

```

Found in path(s):

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-  
jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
```

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```

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```
*/
```

```
/*
```

This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the format that mimicks GCC output.

```
*/
```

```
location(file, line, column) ::= "<file>:<line>:<column>:"
```

```
message(id, text) ::= "<text> [error <id>]"
```

```
report(location, message, type) ::= "<location> <type>: <message>"
```

```
wantsSingleLineMessage() ::= "true"
```

Found in path(s):

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
```

jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

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jar/org/antlr/v4/tool/templates/codegen/Cpp/Cpp.stg

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*/

```

```

/** How to generate rules derived from left-recursive rules.
* These rely on recRuleAltPredicate(),
* recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
* templates in main language.stg
*/

```

```
group LeftRecursiveRules;
```

```
recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
        userRetvals, leftRecursiveRuleRefLabels) ::=
```

```

<<
<ruleName><if(userRetvals)> returns [<userRetvals>]<endif>
: ( { } <primaryAlts:{ alt | <alt.altText> }; separator="\n    | ">
  )
  (
    <opAlts; separator="\n    | ">
  )*
;
>>

```

```

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?<<precOption>=<opPrec>> <alt.altText>
>>

```

Found in path(s):

```

* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg

```

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```
/*
```

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*/

/*

This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the default format ANTLR uses.

*/

```
location(file, line, column) ::= "<file>(<line>,<column>)"
```

```
message(id, text) ::= "error <id> : <text>"
```

```
report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"
```

```
wantsSingleLineMessage() ::= "true"
```

Found in path(s):

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-  
jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
```

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 */

/** Find left-recursive rules */

tree grammar LeftRecursiveRuleWalker;

```
options {
  tokenVocab=ANTLRParser;
  ASTLabelType=GrammarAST;
}
```

```
@header {
package org.antlr.v4.parse;
```

```
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}
```

```
@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public int numAlts; // how many alts for this rule total?
```

```

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
    currentOuterAltNumber = 1;
}
: ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
    ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
    ^(RETURNS a=ARG_ACTION {setReturnValues($a;)}))?
// (^(THROWS .+)? don't allow
    (^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
    (^(OPTIONS .*)
    | ^(AT ID ACTION) // TODO: copy
    )*)
ruleBlock { $isLeftRec = $ruleBlock.isLeftRec;}
exceptionGroup
)
;

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^(CATCH ARG_ACTION ACTION)
;

finallyClause
: ^(FINALLY ACTION)
;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED
;

```

```

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
: ^( BLOCK
  (
    o=outerAlternative
    {if ($o.isLeftRec) $isLeftRec = true;}
    {currentOuterAltNumber++;}
  )+
)
;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
: (binary)=>      binary
      {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| (prefix)=>      prefix
      {prefixAlt((AltAST)$start, currentOuterAltNumber);}
| (suffix)=>      suffix
      {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| nonLeftRecur   {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

binary
: ^( ALT elementOptions? recurse element* recurse epsilonElement* )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

prefix
: ^( ALT elementOptions?
  element+
  recurse epsilonElement*
)
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

suffix
: ^( ALT elementOptions? recurse element+ )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

nonLeftRecur
: ^(ALT elementOptions? element+)
;

recurse
: ^(ASSIGN ID recurseNoLabel)
| ^(PLUS_ASSIGN ID recurseNoLabel)

```

```

| recurseNoLabel
;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
: ^(ASSIGN ID s=token {$t = $s.t;})
| ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
| b=STRING_LITERAL    {$t = $b;}
| ^(b=STRING_LITERAL elementOptions) {$t = $b;}
| ^(c=TOKEN_REF elementOptions) {$t = $c;}
| c=TOKEN_REF        {$t = $c;}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

element
: atom
| ^(NOT element)
| ^(RANGE atom atom)
| ^(ASSIGN ID element)
| ^(PLUS_ASSIGN ID element)
| ^(SET setElement+)
| RULE_REF
| ebnf
| epsilonElement
;

epsilonElement
: ACTION
| SEMPRED
| EPSILON
| ^(ACTION elementOptions)
| ^(SEMPRED elementOptions)
;

setElement
: ^(STRING_LITERAL elementOptions)

```

```
| ^(TOKEN_REF elementOptions)
| STRING_LITERAL
| TOKEN_REF
;
```

ebnf: block

```
| ^( OPTIONAL block )
| ^( CLOSURE block )
| ^( POSITIVE_CLOSURE block )
;
```

block

```
: ^(BLOCK ACTION? alternative+)
;
```

alternative

```
: ^(ALT elementOptions? element+)
;
```

atom

```
: ^(RULE_REF ARG_ACTION? elementOptions?)
| ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID element)
;
```

Found in path(s):

* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

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*/

```

```

/** ANTLR tool checks output templates are compatible with tool code generation.
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/

```

```

javascriptTypeInitMap ::= [
  "bool":"false",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"{}" // anything other than a primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');
<if(file.genListener)>
var <file.grammarName>Listener = require('./<file.grammarName>Listener').<file.grammarName>Listener;
<endif>
<if(file.genVisitor)>
var <file.grammarName>Visitor = require('./<file.grammarName>Visitor').<file.grammarName>Visitor;
<endif>

<namedActions.header>
<parser>
>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

// This class defines a complete listener for a parse tree produced by <file.parserName>.
function <file.grammarName>Listener() {
  antlr4.tree.ParseTreeListener.call(this);
  return this;
}

<file.grammarName>Listener.prototype = Object.create(antlr4.tree.ParseTreeListener.prototype);
<file.grammarName>Listener.prototype.constructor = <file.grammarName>Listener;

<file.listenerNames:{lname |
// Enter a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.enter<lname; format="cap"> = function(ctx) {
\};

// Exit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.exit<lname; format="cap"> = function(ctx) {
\};

}; separator="\n">

exports.<file.grammarName>Listener = <file.grammarName>Listener;
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

function <file.grammarName>Visitor() {
  antlr4.tree.ParseTreeVisitor.call(this);
  return this;
}

<file.grammarName>Visitor.prototype = Object.create(antlr4.tree.ParseTreeVisitor.prototype);
<file.grammarName>Visitor.prototype.constructor = <file.grammarName>Visitor;

<file.visitorNames:{lname |
// Visit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Visitor.prototype.visit<lname; format="cap"> = function(ctx) {
  return this.visitChildren(ctx);
\};

```

```

}; separator="\n">

exports.<file.grammarName>Visitor = <file.grammarName>Visitor;
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
var <superClass> = require('./<superClass>').<superClass>;
<endif>

var grammarFileName = "<parser.grammarFileName; format="java-escape">";

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

var sharedContextCache = new antlr4.PredictionContextCache();

var literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor > ];

var symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor > ];

var ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor > ];

function <parser.name> (input) {
<superClass; null="antlr4.Parser">.call(this, input);
this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
this.ruleNames = ruleNames;
this.literalNames = literalNames;
this.symbolicNames = symbolicNames;
<namedActions.members>
return this;
}

<parser.name>.prototype = Object.create(<superClass; null="antlr4.Parser">.prototype);
<parser.name>.prototype.constructor = <parser.name>;

Object.defineProperty(<parser.name>.prototype, "atn", {
get : function() {

```



```

    return atn;
  }
});

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>

<funcs; separator="\n">

<if(sembredFuncs)>
<parser.name>.prototype.sembred = function(localctx, ruleIndex, predIndex) {
  switch(ruleIndex) {
    <parser.sembredFuncs.values:{f | case <f.ruleIndex>:
      return this.<f.name>_sembred(localctx, predIndex);}; separator="\n">
    default:
      throw "No predicate with index:" + ruleIndex;
  }
};

<sembredFuncs.values; separator="\n">
<endif>

exports.<parser.name> = <parser.name>;

>>

dumpActions(recog, argFuncs, actionFuncs, sembredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
  switch (ruleIndex) {
    <recog.actionFuncs.values:{f|
  case <f.ruleIndex>:
    this.<f.name>_action(localctx, actionIndex);
    break;}; separator="\n">
    default:
      throw "No registered action for:" + ruleIndex;
  }
};

<actionFuncs.values; separator="\n">
<endif>
<if(sembredFuncs)>
<lexer.name>.prototype.sembred = function(localctx, ruleIndex, predIndex) {
  switch (ruleIndex) {

```

```

    <recog.sempredFuncs.values:{f| case <f.ruleIndex>:
return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
        throw "No registered predicate for:" + ruleIndex;
    }
};

```

```

<sempredFuncs.values; separator="\n">
<endif>
>>

```

```

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleActionFunction(r, actions) ::= <<

```

```

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
    switch (actionIndex) {
    <actions:{index|
case <index>:
    <actions.(index)>
    break;}; separator="\n">
    default:
        throw "No registered action for:" + actionIndex;
    }
};
>>

```

```

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleSempredFunction(r, actions) ::= <<

```

```

<if (r.factory.g.lexer)><lexer.name><else><parser.name><endif>.prototype.<r.name>_sempred = function(localctx,
predIndex) {
    switch(predIndex) {
    <actions:{index| case <index>:
return <actions.(index)>}; separator="\n">
    default:
        throw "No predicate with index:" + predIndex;
    }
};
>>

```

```

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

```

```

<ruleCtx>

<altLabelCtxs:{1 | <altLabelCtxs.(1)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.name>.<currentRule.ctxType> = <currentRule.ctxType>;

<parser.name>.prototype.<currentRule.name> = function(<currentRule.args:{a | <a.name>}; separator=", ">) {

    var localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.name>}>);
    this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
    <namedActions.init>
    <locals; separator="\n">
    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    } catch (re) {
        if(re instanceof antlr4.error.RecognitionException) {
            localctx.exception = re;
            this._errHandler.reportError(this, re);
            this._errHandler.recover(this, re);
        } else {
            throw re;
        }
    }<endif> finally {
        <finallyAction>
        this.exitRule();
    }
    return localctx;
};

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{1 | <altLabelCtxs.(1)>}; separator="\n">

<parser.name>.prototype.<currentRule.name> = function(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
    if(_p===undefined) {
        _p = 0;
    }
}

```

```

var _parentctx = this._ctx;
var _parentState = this.state;
var localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.name>}>);
var _prevctx = localctx;
var _startState = <currentRule.startState>;
this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {
    <code>
    <postamble; separator="\n">
    <namedActions.after>
} catch( error) {
    if(error instanceof antlr4.error.RecognitionException) {
        localctx.exception = error;
        this._errHandler.reportError(this, error);
        this._errHandler.recover(this, error);
    } else {
        throw error;
    }
} finally {
    <finallyAction>
    this.unrollRecursionContexts(_parentctx)
}
return localctx;
};

```

>>

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {

```

```

<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
  <alts; separator="\n">
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">

```

```

    this.state = <choice.stateNumber>; <! loopback/exit decision !>
    this._errHandler.sync(this);
    <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
    <alt>
    break;
}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
    <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(!_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
    if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
        <iteration>
        <alts> <! should only be one !>
    }
    this.state = <choice.loopBackStateNumber>;
    this._errHandler.sync(this);
    _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

```

>>

```
PlusBlock(choice, alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
    break;}; separator="\n">
    default:
    <error>
  }
  this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>
```

```
Sync(s) ::= "sync(<s.expecting.name>)"
```

```
ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"
```

```
TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>
```

```
// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x1f) == 0
>>
```

```
// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)); separator=" | ">)) !== 0)
%>
```

```
isZero ::= [
"0":true,
default:false
]
```

```
offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
```

```

%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>====<parser.name>.<ttype>} ; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{ t | case <parser.name>.<t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{ l | <labelref(l)> =
}><endif>this.<r.name><(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChu
nks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{ l | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{ l | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName><=<0 || <expr>><else>if(!(<expr>))<endif> {
  <if(m.labels)><m.labels:{ l | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
  this._errHandler.reportMatch(this);
  this.consume();
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{ l | <labelref(l)> = }><endif>this.matchWildcard();
>>

```



```

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
    throw new antlr4.error.FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "this.skip()"
LexerMoreCommand() ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg, grammar) ::= "this._type = <arg>"
LexerChannelCommand(arg, grammar) ::= "this._channel = <arg>"
LexerModeCommand(arg, grammar) ::= "this._mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "this.pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>===null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label>=== null ? 0 : <ctx(t)>.<t.label>.type)"

```

```

TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

```

```

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "<ctx(r)>.<r.label>===null ? null : this._input.getText(new antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

```

```

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "this"

```

```

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

```

```

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

```

```

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>"
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

```

```

ContextTokenGetterDecl(t) ::= <<
<t.name> = function() {
    return this.getToken(<parser.name>.<t.name>, 0);
};
>>

```

```

// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

```

```

ContextTokenListIndexedGetterDecl(t) ::= <<
<t.name> = function(i) {
    if(i===undefined) {
        i = null;
    }
    if(i===null) {

```

```

    return this.getTokens(<parser.name>.<t.name>);
  } else {
    return this.getToken(<parser.name>.<t.name>, i);
  }
};

>>

ContextRuleGetterDecl(r) ::= <<
<r.name> = function() {
  return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r) ::= <<
<r.name> = function(i) {
  if(i===undefined) {
    i = null;
  }
  if(i===null) {
    return this.getTypedRuleContexts(<r.ctxName>);
  } else {
    return this.getTypedRuleContext(<r.ctxName>,i);
  }
};
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

```

```

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers) ::= <<
function <struct.name>(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}>) {
  if(parent===undefined) {
    parent = null;
  }
  if(invokingState===undefined || invokingState===null) {
    invokingState = -1;
  }
  <if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.call(this, parent,
invokingState);
  this.parser = parser;
  this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
  <attrs:{a | <a>}; separator="\n">
  <struct.ctorAttrs:{a | this.<a.name> = <a.name> || null;}; separator="\n">
  return this;
}

<struct.name>.prototype =
Object.create(<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
<struct.name>.prototype.copyFrom = function(ctx) {
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype.copyFrom.call(this,
ctx);
  <struct.attrs:{a | this.<a.name> = ctx.<a.name>}; separator="\n">
};
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
function <struct.name>(parser, ctx) {
  <currentRule.name; format="cap">Context.call(this, parser);
  <attrs:{a | <a>}; separator="\n">
  <currentRule.name; format="cap">Context.prototype.copyFrom.call(this, ctx);
  return this;
}

<struct.name>.prototype = Object.create(<currentRule.name; format="cap">Context.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<! Define fields of this parser to export this struct/context class !>

```

```
<parser.name>.<struct.name> = <struct.name>;
```

```
<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">  
<dispatchMethods; separator="\n">
```

```
>>
```

```
ListenerDispatchMethod(method) ::= <<
```

```
<struct.name>.prototype.<if(method.isEnter)>enter<else>exit<endif>Rule = function(listener) {  
  if(listener instanceof <parser.grammarName>Listener ) {  
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);  
  }  
};
```

```
>>
```

```
VisitorDispatchMethod(method) ::= <<
```

```
<struct.name>.prototype.accept = function(visitor) {  
  if ( visitor instanceof <parser.grammarName>Visitor ) {  
    return visitor.visit<struct.derivedFromName; format="cap">(this);  
  } else {  
    return visitor.visitChildren(this);  
  }  
};
```

```
>>
```

```
AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>null<endif>"
```

```
/** If we don't know location of label def x, use this template */
```

```
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"
```

```
/** For any action chunk, what is correctly-typed context struct ptr? */
```

```
ctx(actionChunk) ::= "localctx"
```

```
// used for left-recursive rules
```

```
recRuleAltPredicate(ruleName,opPrec) ::= "this.precpred(this._ctx, <opPrec>)"
```

```
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
```

```
recRuleSetStopToken() ::= "this._ctx.stop = this._input.LT(-1);"
```

```
recRuleAltStartAction(ruleName, ctxName, label) ::= <<
```

```
localctx = new <ctxName>Context(this, _parentctx, _parentState);
```

```
<if(label)>localctx.<label> = _prevctx;<endif>
```

```
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
```

```
>>
```

```
recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
```

```
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,
```

```

    _parentctx, _parentState));
    <if(label)>
    <if(isListLabel)>
    localctx.<label>.push(_prevctx);
    <else>
    localctx.<label> = _prevctx;
    <endif>
    <endif>
    this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
    >>

```

```

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
    this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
var antlr4 = require('antlr4/index');

```

```

<namedActions.header>

```

```

<lexer>

```

```

>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
var <superClass> = require('./<superClass>').<superClass>;
<endif>

```

```

<atn>

```

```

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

```

```

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

```

```

function <lexer.name>(input) {
    <if(superClass)><superClass><else>antlr4.Lexer<endif>.call(this, input);

```

```

    this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.PredictionContextCache());
    return this;
}

<lexer.name>.prototype = Object.create(<if(superClass)><superClass><else>antlr4.Lexer<endif>.prototype);
<lexer.name>.prototype.constructor = <lexer.name>;

Object.defineProperty(<lexer.name>.prototype, "atn", {
    get : function() {
        return atn;
    }
});

<lexer.name>.EOF = antlr4.Token.EOF;
<lexer.tokens>:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>

<if(lexer.channels)>
<lexer.channels>:{c | <lexer.name>.<c> = <lexer.channels.(c)>;}; separator="\n">

<endif>
<if(rest(lexer.modes))>
<rest(lexer.modes):{m | <lexer.name>.<m> = <i>;}; separator="\n">

<endif>
<lexer.name>.prototype.channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>,
<lexer.channels>:{c | "<c>"}; separator=", ", wrap, anchor><endif> ];

<lexer.name>.prototype.modeNames = [ <lexer.modes>:{m | "<m>"}; separator=", ", wrap, anchor> ];

<lexer.name>.prototype.literalNames = [ <lexer.literalNames>:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

<lexer.name>.prototype.symbolicNames = [ <lexer.symbolicNames>:{t | <t>}; null="null", separator=", ", wrap,
anchor> ];

<lexer.name>.prototype.ruleNames = [ <lexer.ruleNames>:{r | "<r>"}; separator=", ", wrap, anchor> ];

<lexer.name>.prototype.grammarFileName = "<lexer.grammarFileName>";

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

exports.<lexer.name> = <lexer.name>;

>>

SerializedATN(model) ::= <<

```

<! only one segment, can be inlined !>

```
var serializedATN = ["<model.serialized; wrap={",<n>  "}>"].join("");
```

```
>>
```

```
/** Using a type to init value map, try to init a type; if not in table
```

```
* must be an object, default value is "null".
```

```
*/
```

```
initValue(typeName) ::= <<
```

```
<javacriptTypeInitMap.(typeName)>
```

```
>>
```

```
codeFileExtension() ::= ".js"
```

Found in path(s):

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-  
jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
```

No license file was found, but licenses were detected in source scan.

```
/*
```

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```

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```

```
* Copyright (c) 2012-2016 Sam Harwell
```

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*/

/** ANTLR tool checks output templates are compatible with tool code generation.

* For now, a simple string match used on x.y of x.y.z scheme.

* Must match Tool.VERSION during load to templates.

*

* REQUIRED.

*/

```
pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other than a primitive type is an object
]
```

```
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
# encoding: utf-8
```

```
from __future__ import print_function
```

```
from antlr4 import *
```

```
from io import StringIO
```

```
import sys
```

```
<namedActions.header>
```

```
<parser>
```

```
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
from antlr4 import *
```

```
<header>
```

```
# This class defines a complete listener for a parse tree produced by <file.parserName>.
```

```
class <file.grammarName>Listener(ParseTreeListener):
```

```
    <file.listenerNames>: { lname |
```

```
# Enter a parse tree produced by <file.parserName>#<lname>.
```

```
def enter<lname; format="cap">(self, ctx):
```

```
    pass
```

```
# Exit a parse tree produced by <file.parserName>#<lname>.
```

```
def exit<lname; format="cap">(self, ctx):
```

```

    pass

}; separator="\n">

>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
    return self.visitChildren(ctx)

}; separator="\n">

>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

```

```

sharedContextCache = PredictionContextCache()

literalNames = [ <parser.literalNames:{t | u<t>}; null="u\"<INVALID>\"", separator=", ", wrap, anchor> ]

symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="u\"<INVALID>\"", separator=", ", wrap, anchor> ]

<parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

ruleNames = [ <parser.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

EOF = <TokenLabelType().EOF
<if(parser.tokens)>
<parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
<endif>

<parser:(ctor())>

<namedActions.members>

<funcs; separator="\n">

<if(sembredFuncs)>
def sembred(self, localctx, ruleIndex, predIndex):
    if self._predicates == None:
        self._predicates = dict()
<parser.sembredFuncs.values:{f |
    self._predicates[<f.ruleIndex>] = self.<f.name>_sembred}; separator="\n    ">
    pred = self._predicates.get(ruleIndex, None)
    if pred is None:
        raise Exception("No predicate with index:" + str(ruleIndex))
    else:
        return pred(localctx, predIndex)

<sembredFuncs.values; separator="\n">
<endif>

>>

dumpActions(recog, argFuncs, actionFuncs, sembredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values:{f]

```

```

        actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
        self._actions = actions
        action = self._actions.get(ruleIndex, None)
        if action is not None:
            action(localctx, actionIndex)
        else:
            raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
    if self._predicates is None:
        preds = dict()
    <recog.sempredFuncs.values:{f
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates = preds
        pred = self._predicates.get(ruleIndex, None)
        if pred is not None:
            return pred(localctx, predIndex)
        else:
            raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input, output=sys.stdout):
    super(<parser.name>, self).__init__(input, output=output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
    <actions:{index|
    <if(first(actions))>
        if actionIndex == <index>:
            <actions.(index)>
    <elseif(rest(actions))>

```

```

    elif actionIndex == <index>:
        <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
    <actions:{index|
<if(first(actions))>
    if predIndex == <index>:
        return <actions.(index)>
<elseif(rest(actions))>
    elif predIndex == <index>:
        return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):

    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
    self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    <endif>
    finally:
        <finallyAction>

```

```

        self.exitRule()
    return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=

<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
    _prevctx = localctx
    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    finally:
        <finallyAction>
        self.unrollRecursionContexts(_parentctx)
    return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel>;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>

>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  pass

>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

<!else if ( !(<followExpr> ) ) <error!>

>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
    <alts; separator="\n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>
    if not (<loopExpr>):
        break
>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i>:
    <alt>
    pass
}; separator="\nel">
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
}; separator="\nel">
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
    if _alt==1<if(!choice.ast.greedy)>+1<endif>:

```



```

    <iteration>
    <alts> <! should only be one !>
    self.state = <choice.loopBackStateNumber>
    self._errHandler.sync(self)
    _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
    <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
}; separator="\nел">
    else:
        <error>
    self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)); separator=" | ">)) != 0
%>

isZero ::= [
"0":true,
default:false

```

]

```
offsetShiftVar(shiftAmount, offset) ::= <%  
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>  
>%>
```

```
offsetShiftType(shiftAmount, offset) ::= <%  
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>  
>%>
```

```
// produces more efficient bytecode when bits.ttypes contains at most two items  
bitsetInlineComparison(s, bits) ::= <%  
<bits.ttypes:{ttype | <s.varName>===<parser.name>.<ttype>}; separator=" or ">  
>%>
```

```
cases(ttypes) ::= <<  
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:  
>>
```

```
InvokeRule(r, argExprsChunks) ::= <<  
self.state = <r.stateNumber>  
<if(r.labels)><r.labels:{l | <labelref(l)> =  
}><endif>self.<r.name><(<if(r.ast.options.p)><r.ast.options.p><(<if(argExprsChunks)><endif><endif><argExprsChu  
nks>)>  
>>
```

```
MatchToken(m) ::= <<  
self.state = <m.stateNumber>  
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)  
>>
```

```
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"
```

```
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"
```

```
CommonSetStuff(m, expr, capture, invert) ::= <<  
self.state = <m.stateNumber>  
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>  
<capture>  
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:  
<if(m.labels)><m.labels:{l | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)  
else:  
self._errHandler.reportMatch(self)  
self.consume()  
>>
```

```
Wildcard(w) ::= <<  
self.state = <w.stateNumber>
```

```

<if(w.labels)><w.labels:{1 | <labelref(1)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar) ::= "_type = <arg>"
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>"
LexerModeCommand(arg, grammar) ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

```

```

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

```

```

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

```

```

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

```

```

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

```

```

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

```

```

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

```

```

ContextTokenGetterDecl(t) ::= <<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

```

```

// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

```

```

ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)

```

```

else:
    return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r) ::= <<
def <r.name>(self, i=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

    def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>):
        super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)
        self.parser = parser
        <attrs:{a | <a>}; separator="\n">

```

```

    <struct.ctorAttrs:{ a | self.<a.name> = <a.name> }; separator="\n">

    <getters:{ g | <g> }; separator="\n\n">

    def getRuleIndex(self):
        return <parser.name>.RULE_<struct.derivedFromName>

    <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
    def copyFrom(self, ctx):
        super(<parser.name>.<struct.name>, self).copyFrom(ctx)
        <struct.attrs:{ a | self.<a.name> = ctx.<a.name> }; separator="\n">

    <endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context
        super(<parser.name>.<struct.name>, self).__init__(parser)
        <attrs:{ a | <a> }; separator="\n">
        self.copyFrom(ctx)

    <getters:{ g | <g> }; separator="\n">

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
    if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
    if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>

```

```

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>

```

```

# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.channels)>
    <lexer.channels:{c| <c> = <lexer.channels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.modes)>
    <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

<endif>
    <lexer.tokens:{k| <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

    channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channels)>, <lexer.channels:{c|
u"<c>"}; separator=", ", wrap, anchor><endif> ]

    modeNames = [ <lexer.modes:{m| u"<m>"}; separator=", ", wrap, anchor> ]

    literalNames = [ u"\<INVALID>",
        <lexer.literalNames:{t| u<t>}; separator=", ", wrap, anchor> ]

    symbolicNames = [ u"\<INVALID>",
        <lexer.symbolicNames:{t| u<t>}; separator=", ", wrap, anchor> ]

    ruleNames = [ <lexer.ruleNames:{r| u"<r>"}; separator=", ", wrap, anchor> ]

```



```

grammarFileName = u"<lexer.grammarFileName>"

def __init__(self, input=None, output=sys.stdout):
    super(<lexer.name>, self).__init__(input, output=output)
    self.checkVersion("<lexerFile.ANTLRVersion>")
    self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
    self._actions = None
    self._predicates = None

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
    with StringIO() as buf:
        buf.write(u"<model.serialized; wrap={ }<n>    buf.write(u" }>")
        return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
No license file was found, but licenses were detected in source scan.

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```

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 */

```
javaTypeInitMap ::= [
  "int":"0",
  "long":"0",
  "float":"0.0f",
  "double":"0.0",
  "boolean":"false",
  "byte":"0",
  "short":"0",
  "char":"0",
  default:"null" // anything other than a primitive type is an object
]
```

// args must be <object-model-object>, <fields-resulting-in-STs>

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
```

```
import java.util.ArrayList;
```

```
<parser>
```

```
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
<if(file.genPackage)>
```

```
package <file.genPackage>;
```

```
<endif>
```

```
<header>
```

```
import org.antlr.v4.runtime.tree.ParseTreeListener;
```

```
/**
```

```
 * This interface defines a complete listener for a parse tree produced by
```

```
 * { @link <file.parserName> }.
```

```
 */
```

```
public interface <file.grammarName>Listener extends ParseTreeListener {
```

```
  <file.listenerNames: {Iname |
```

```
/**
```

```
<if(file.listenerLabelRuleNames.(Iname))>
```

```
 * Enter a parse tree produced by the { @code <Iname> \}
```

```
 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(Iname)> \}.
```

```
<else>
```

```
 * Enter a parse tree produced by { @link <file.parserName>#<Iname> \}.
```

```
<endif>
```

```
 * @param ctx the parse tree
```

```
 */
```

```
void enter<Iname; format="cap">(<file.parserName>.<Iname; format="cap">Context ctx);
```

```
/**
```

```
<if(file.listenerLabelRuleNames.(Iname))>
```

```
 * Exit a parse tree produced by the { @code <Iname> \}
```

```
 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(Iname)> \}.
```

```
<else>
```

```
 * Exit a parse tree produced by { @link <file.parserName>#<Iname> \}.
```

```
<endif>
```

```
 * @param ctx the parse tree
```

```
 */
```

```
void exit<Iname; format="cap">(<file.parserName>.<Iname; format="cap">Context ctx);}; separator="\n">
```

```
}
```

```
>>
```

```
BaseListenerFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
<if(file.genPackage)>
```

```
package <file.genPackage>;
```

```
<endif>
```

```
<header>
```

```

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
 * This class provides an empty implementation of { @link <file.grammarName>Listener},
 * which can be extended to create a listener which only needs to handle a subset
 * of the available methods.
 */
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
    <file.listenerNames:{lname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \} };
    separator="\n">

/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void enterEveryRule(ParserRuleContext ctx) { \}
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void exitEveryRule(ParserRuleContext ctx) { \}
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void visitTerminal(TerminalNode node) { \}
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>

```

```

*/
@Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by { @link <file.parserName> }.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void } for
 * operations with no return type.
 */
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
    <file.visitorNames:{ lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
 * Visit a parse tree produced by the { @code <lname>\}
 * labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by { @link <file.parserName>#<lname>\}.
<endif>
 * @param ctx the parse tree
 * @return the visitor result
 */
    T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor },
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.

```

```

*
* @param \<T> The return type of the visit operation. Use { @link Void} for
* operations with no return type.
*/
public class <file.grammarName>BaseVisitor<T> extends AbstractParseTreeVisitor<T> implements
<file.grammarName>Visitor<T> {
    <file.visitorNames:{lname |
/**
* { @inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* { @link #visitChildren\} on { @code ctx\}.\</p>
*/
    @Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
    visitChildren(ctx); \} }; separator="\n">
    }
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <parser.name> extends <superClass; null="Parser"> {
    static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

    protected static final DFA[] _decisionToDFA;
    protected static final PredictionContextCache _sharedContextCache =
        new PredictionContextCache();
    <if(parser.tokens)>
    public static final int
    <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
    <endif>
    public static final int
    <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
    private static String[] makeRuleNames() {
        return new String[] {
            <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
        };
    }
    public static final String[] ruleNames = makeRuleNames();

    <vocabulary(parser.literalNames, parser.symbolicNames)>

```

```
@Override
public String getGrammarFileName() { return "<parser.grammarFileName; format="java-escape">"; }
```

```
@Override
public String[] getRuleNames() { return ruleNames; }
```

```
@Override
public String getSerializedATN() { return _serializedATN; }
```

```
@Override
public ATN getATN() { return _ATN; }
```

```
<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">
```

```
<if(sempredFuncs)>
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <parser.sempredFuncs.values:{f}
    case <f.ruleIndex>:
        return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>
```

```
<atn>
}
>>
```

```
vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
    return new String[] {
        <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
    };
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
    return new String[] {
        <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
    };
}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
    _SYMBOLIC_NAMES);
```

```

/**
 * @deprecated Use {@link #VOCABULARY} instead.
 */
@Deprecated
public static final String[] tokenNames;
static {
    tokenNames = new String[_SYMBOLIC_NAMES.length];
    for (int i = 0; i < tokenNames.length; i++) {
        tokenNames[i] = VOCABULARY.getLiteralName(i);
        if (tokenNames[i] == null) {
            tokenNames[i] = VOCABULARY.getSymbolicName(i);
        }

        if (tokenNames[i] == null) {
            tokenNames[i] = "<INVALID>";
        }
    }
}

@Override
@Deprecated
public String[] getTokenNames() {
    return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
    return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values: {f}
        case <f.ruleIndex>:
            <f.name>_action((<f.ctxType>)_localctx, actionIndex);
            break;}; separator="\n">
    }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override

```



```

public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <recog.sempredFuncs.values: {f|
    case <f.ruleIndex>:
        return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

```

```

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
    super(input);
    _interp = new ParserATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
}
>>

```

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
    switch (actionIndex) {
        <actions: {index|
    case <index>:
        <actions.(index)>
        break;}; separator="\n">
    }
}
>>

```

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
    switch (predIndex) {
        <actions: {index|
    case <index>:
        return <actions.(index)>;}; separator="\n">
    }
    return true;
}
>>

```

```

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)

```

::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>

<currentRule.name><(<args; separator=", ">) throws RecognitionException {

<currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,
<a.name>}>>;

enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);

<namedActions.init>

<locals; separator="\n">

try {

<if(currentRule.hasLookaheadBlock)>

int _alt;

<endif>

<code>

<postamble; separator="\n">

<namedActions.after>

}

<if(exceptions)>

<exceptions; separator="\n">

<else>

catch (RecognitionException re) {

_localctx.exception = re;

_errHandler.reportError(this, re);

_errHandler.recover(this, re);

}

<endif>

finally {

<finallyAction>

exitRule();

}

return _localctx;

}

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=

<<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>

<currentRule.name><(<args; separator=", ">) throws RecognitionException {

return <currentRule.name>(0<currentRule.args:{a | , <a.name>}>>);

}

```

private <currentRule.ctxType> <currentRule.name>(int _p<args:{a | , <a>}>) throws RecognitionException {
    ParserRuleContext _parentctx = _ctx;
    int _parentState = getState();
    <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>);
    <currentRule.ctxType> _prevctx = _localctx;
    int _startState = <currentRule.startState>;
    enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
    <namedActions.init>
    <locals; separator="\n">
    try {
    <if(currentRule.hasLookaheadBlock)>
        int _alt;
    <endif>
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    }
    catch (RecognitionException re) {
        _localctx.exception = re;
        _errHandler.reportError(this, re);
        _errHandler.recover(this, re);
    }
    finally {
        <finallyAction>
        unrollRecursionContexts(_parentctx);
    }
    return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel>;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
    <locals; separator="\n">
    <preamble; separator="\n">
    <ops; separator="\n">
}
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<

```

```

setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
<alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
<alts; separator="\n">
setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);
<iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<

```

```

setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  setState(<choice.stateNumber>); <! loopback/exit decision !>
  _errHandler.sync(this);
  <iteration>
} while ( <loopExpr> );
>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i>:
  <alt>
  break;}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
}
setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);

```

```

    _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
  }
  >>

```

```

PlusBlock(choice, alts, error) ::= <<
  setState(<choice.blockStartStateNumber>); <! alt block decision !>
  _errHandler.sync(this);
  _alt = 1<if(!choice.ast.greedy)>+1<endif>;
  do {
    switch (_alt) {
      <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
      <alt>
      break;}; separator="\n">
      default:
        <error>
    }
    setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
    _errHandler.sync(this);
    _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
  } while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
  >>

```

```

Sync(s) ::= "sync(<s.expecting.name>);"

```

```

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

```

```

TestSetInline(s) ::= <<
  <s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
  >>

```

```

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
  ((<shiftAmount>) & ~0x3f) == 0
  >>

```

```

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
  (<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<< <offsetShift(s.varName, bits.shift)>) &
  (<bits.ttypes:{ ttype | (1L \<< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)
  %>

```

```

isZero ::= [
  "0":true,
  default:false
]

```

```

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>==<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{ t | case <t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{ l | <labelref(l)> =
}><endif><r.name><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChunks>
);
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{ l | <labelref(l)> = }><endif>match(<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{ l | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif><expr> ) {
  <if(m.labels)><m.labels:{ l | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);
}
else {
  if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
  _errHandler.reportMatch(this);
  consume();
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{ l | <labelref(l)> = }><endif>matchWildcard();
>>

```

```

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip();"
LexerMoreCommand() ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar)    ::= "_type = <arg>";
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>";
LexerModeCommand(arg, grammar)    ::= "_mode = <arg>";
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>";

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0"

```



```

TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r) ::=
"<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List<Token> <t.name> = new ArrayList<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = new ArrayList<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::=
"public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t) ::=
"public List<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t) ::= <<
public TerminalNode <t.name>(int i) {
return getToken(<parser.name>.<t.name>, i);
}
>>

ContextRuleGetterDecl(r) ::= <<
public <r.ctxName> <r.name>() {
return getRuleContext(<r.ctxName>.class,0);
}
>>

ContextRuleListGetterDecl(r) ::= <<
public List<<r.ctxName>> <r.name>() {
return getRuleContexts(<r.ctxName>.class);
}
>>

```

```

ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <r.name>(int i) {
    return getRuleContext(<r.ctxName>.class,i);
}
>>

```

```

LexerRuleContext() ::= "RuleContext"

```

```

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */

```

```

RuleContextNameSuffix() ::= "Context"

```

```

ImplicitTokenLabel(tokenName) ::= "<tokenName>"

```

```

ImplicitRuleLabel(ruleName) ::= "<ruleName>"

```

```

ImplicitSetLabel(id) ::= "_tset<id>"

```

```

ListLabelName(label) ::= "<label>"

```

```

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"

```

```

CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

```

```

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers)

```

```

::= <<

```

```

public static class <struct.name> extends

```

```

<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements

```

```

<interfaces; separator=", "><endif> {

```

```

<attrs:{ a | public <a>;}; separator="\n">

```

```

<getters:{ g | <g>;}; separator="\n">

```

```

<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);

```

```

}<endif>

```

```

public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{ a | , <a>>}) {

```

```

    super(parent, invokingState);

```

```

    <struct.ctorAttrs:{ a | this.<a.name> = <a.name>;}; separator="\n">

```

```

}

```

```

@Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }

```

```

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>

```

```

public <struct.name>() { }

```

```

public void copyFrom(<struct.name> ctx) {

```

```

    super.copyFrom(ctx);

```

```

    <struct.attrs:{ a | this.<a.name> = ctx.<a.name>;}; separator="\n">

```

```

}

```

```

<endif>

```

```

<dispatchMethods; separator="\n">

```

```

<extensionMembers; separator="\n">

```

```

}

```

```

>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<

```

```

public static class <struct.name> extends <currentRule.name; format="cap">Context {
  <attrs:{a | public <a>;}; separator="\n">
  <getters:{g | <g>;}; separator="\n">
  public <struct.name>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
  <dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
  if ( listener instanceof <parser.grammarName>Listener )
  ((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
@Override
public <T> T accept(ParseTreeVisitor<? extends T> visitor) {
  if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor<? extends
T>)visitor).visit<struct.derivedFromName; format="cap">(this);
  else return visitor.visitChildren(this);
}
>>

```

```

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

```

```

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>(<x.ctx.name>)_localctx.<endif><x.name>"

```

```

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "(<actionChunk.ctx.name>)_localctx"

```

```

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken() ::= "_ctx.stop = _input.LT(-1);"

```

```

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>

```

```

<if(label)>_localctx.<label> = _prevctx;<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

```

```

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
  _localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
  _parentState));
  <if(label)>
  <if(isListLabel)>
  ((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
  <else>
  ((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
  <endif>
  <endif>
  pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
  >>

```

```

recRuleReplaceContext(ctxName) ::= <<
  _localctx = new <ctxName>Context(_localctx);
  _ctx = _localctx;
  _prevctx = _localctx;
  >>

```

```

recRuleSetPrevCtx() ::= <<
  if ( _parseListeners!=null ) triggerExitRuleEvent();
  _prevctx = _localctx;
  >>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
  <fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
  <if(lexerFile.genPackage)>
  package <lexerFile.genPackage>;
  <endif>
  <namedActions.header>
  import org.antlr.v4.runtime.Lexer;
  import org.antlr.v4.runtime.CharStream;
  import org.antlr.v4.runtime.Token;
  import org.antlr.v4.runtime.TokenStream;
  import org.antlr.v4.runtime.*;
  import org.antlr.v4.runtime.atn.*;
  import org.antlr.v4.runtime.dfa.DFA;
  import org.antlr.v4.runtime.misc.*;

  <lexer>
  >>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

```

```

@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <lexer.name> extends <superClass; null="Lexer"> {
    static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

    protected static final DFA[] _decisionToDFA;
    protected static final PredictionContextCache _sharedContextCache =
        new PredictionContextCache();
    <if(lexer.tokens)>
    public static final int
        <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
    <endif>
    <if(lexer.channels)>
    public static final int
        <lexer.channels:{c | <c>=<lexer.channels.(c)>}; separator=", ", wrap, anchor>;
    <endif>
    <if(rest(lexer.modes)>
    public static final int
        <rest(lexer.modes){m | <m>=<i>}; separator=", ", wrap, anchor>;
    <endif>
    public static String[] channelNames = {
        "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c | "<c>"}; separator=", ",
wrap, anchor><endif>
    };

    public static String[] modeNames = {
        <lexer.modes:{m | "<m>"}; separator=", ", wrap, anchor>
    };

    private static String[] makeRuleNames() {
        return new String[] {
            <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
        };
    }
    public static final String[] ruleNames = makeRuleNames();

    <vocabulary(lexer.literalNames, lexer.symbolicNames)>

    <namedActions.members>

    public <lexer.name>(CharStream input) {
        super(input);
        _interp = new LexerATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
    }

    @Override
    public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

    @Override

```

```
public String[] getRuleNames() { return ruleNames; }
```

```
@Override
```

```
public String getSerializedATN() { return _serializedATN; }
```

```
@Override
```

```
public String[] getChannelNames() { return channelNames; }
```

```
@Override
```

```
public String[] getModeNames() { return modeNames; }
```

```
@Override
```

```
public ATN getATN() { return _ATN; }
```

```
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
```

```
<atn>
```

```
}
```

```
>>
```

```
SerializedATN(model) ::= <<
```

```
<if(rest(model.segments))>
```

```
<! requires segmented representation !>
```

```
private static final int _serializedATNSegments = <length(model.segments)>;
```

```
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
```

```
"<segment; wrap={ "+<\n><\t>" }>"; separator="\n">
```

```
public static final String _serializedATN = Utils.join(
```

```
new String[] {
```

```
<model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
```

```
},
```

```
""
```

```
);
```

```
<else>
```

```
<! only one segment, can be inlined !>
```

```
public static final String _serializedATN =
```

```
"<model.serialized; wrap={ "+<\n><\t>" }>";
```

```
<endif>
```

```
public static final ATN _ATN =
```

```
new ATNDeserializer().deserialize(_serializedATN.toCharArray());
```

```
static {
```

```
_decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
```

```
for (int i = 0; i < _ATN.getNumberOfDecisions(); i++) {
```

```
_decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
```

```
}
```

```
<! org.antlr.v4.tool.DOTGenerator dot = new org.antlr.v4.tool.DOTGenerator(null);!>
```

```
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
```

```
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
```

```
}
```

```
>>
```

```
/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>
```

```
codeFileExtension() ::= ".java"
```

Found in path(s):

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
```

```
* Use of this file is governed by the BSD 3-clause license that
```

```
* can be found in the LICENSE.txt file in the project root.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/ast/RuleRefAST.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/LL1AltBlock.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/LL1Loop.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/ast/NotAST.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/SemPred.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/tool/ast/GrammarAST.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/parse/ToolANTLRParser.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/ast/RangeAST.java
```

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
```

jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/OptionalBlock.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/decl/StructDecl.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/Recognizer.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_start.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/BlankOutputModelFactory.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/gui/TreeTextProvider.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_pos.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/tool/ast/QuantifierAST.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/MatchSet.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/VisitorFile.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/MatchNotSet.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/semantics/BlankActionSplitterListener.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/semantics/SymbolCollector.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/parse/GrammarASTAdaptor.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-

jar/org/antlr/v4/codegen/model/LexerFile.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/semantics/SemanticPipeline.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/model/Parser.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/target/Python3Target.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/parse/TokenVocabParser.java
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
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 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/model/MatchToken.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/ActionTranslator.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/misc/OrderedHashMap.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/model/StarBlock.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/model/Sync.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/analysis/AnalysisPipeline.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_ctx.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/parse/ScopeParser.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/model/ModelElement.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/tool/ast/StarBlockAST.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/parse/v4ParserException.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/model/LL1Choice.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/model/AddToLabelList.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/model/OutputFile.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/codegen/target/CppTarget.java
 * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
 jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java

- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/BuildDependencyGenerator.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/OutputModelController.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/ANTLRToolListener.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/CodeGenPipeline.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/LabelType.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/ast/SetAST.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/LabelElementPair.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/model/InvokeRule.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/parse/v3TreeGrammarException.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/target/JavaTarget.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/Rule.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/model/Choice.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/model/PlusBlock.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/gui/SystemFontMetrics.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/model/ArgAction.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/GrammarSemanticsMessage.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/model/RuleActionFunction.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
- * /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-

jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java

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```
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 */

// File   : A3Lexer.g
// Author  : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version  : First implemented as part of ANTLR 3.2 this is the self
//           hosting ANTLR 3 Lexer.
//
// Description
// -----
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
```



```
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
// for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
// that the lexer tries to defer error reporting to the parser, and the parser
// tries to defer error reporting to a semantic phase consisting of a single
// walk of the AST. The reason for this is that the error messages produced
// from later phases of the parse will generally have better context and so
// be more useful to the end user. Consider the message: "Syntax error at 'options'"
// vs: "You cannot specify two options{ } sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
// and report them specifically and not just issue confusing lexer mismatch errors.
//
```

```
/** Read in an ANTLR grammar and build an AST. Try not to do
```

```
* any actions, just build the tree.
```

```
*
```

```
* The phases are:
```

```
*
```

```
* A3Lexer.g (this file)
```

```
* A3Parser.g
```

```
* A3Verify.g (derived from A3Walker.g)
```

```
* assign.types.g
```

```
* define.g
```

```
* buildnfa.g
```

```
* antlr.print.g (optional)
```

```
* codegen.g
```

```
*
```

```
* Terence Parr
```

```
* University of San Francisco
```

```
* 2005
```

```
* Jim Idle (this v3 grammar)
```

```
* Temporal Wave LLC
```

```
* 2009
```

```
*/
```

```
lexer grammar ANTLRLexer;
```

```
// =====
```

```
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
```

```
// =====
```

```
// -----
```

```
// Options
```

```

//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
language    = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class
//
//superclass = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

```

```

// Include the copyright in this source and also the generated source

```

```

//

```

```

@lexer::header {

```

```

/*

```

```

[The "BSD licence"]

```

```

Copyright (c) 2005-2009 Terence Parr

```

```

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```

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*/

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;
}
```

```
@members {
```

```
public static final int COMMENTS_CHANNEL = 2;
```

```
public CommonTokenStream tokens; // track stream we push to; need for context info
```

```
public boolean isLexerRule = false;
```

```
public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }
```

```
/** scan backwards from current point in this.tokens list
```

```
 * looking for the start of the rule or subrule.
```

```
 * Return token or null if for some reason we can't find the start.
```

```
*/
```

```
public Token getRuleOrSubruleStartToken() {
```

```
    if ( tokens==null ) return null;
```

```
    int i = tokens.index();
```

```
        int n = tokens.size();
```

```
        if ( i>=n ) i = n-1; // seems index == n as we lex
```

```
    while ( i>=0 && i<n ) {
```

```
        int ttype = tokens.get(i).getType();
```

```
        if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
```

```
            return tokens.get(i);
```

```
        }
```

```
        i--;
```

```
    }
```

```
    return null;
```

```
}
```

```
}
```

```
// -----
```

```
// Comments
```

```
//
```

```
// ANTLR comments can be multi or single line and we don't care
```

```
// which particularly. However we also accept Javadoc style comments
```

```
// of the form: /** ... */ and we do take care to distinguish those
```

```
// from ordinary multi-line comments
```

```
// Note how we guide the lexical PATH because we want to issue a decriptive
```

```
// error message in case of a standalone '/' character, which makes no
```

```

// sense in ANTLR source code. We also trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

// Record the start line and offsets as if we need to report an
// unterminated comment, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = $line;
int offset = getCharPositionInLine();
}

: // Eat the first character only, then see if we have a comment
  // or something silly.
  //
  '/' // Comment introducer

(
  // Single line comment, possibly with embedded src/line directives
  // in a similar style to the C pre-processor, allowing generated
  // code to refer the programmer back to the original source code
  // in case of error.
  //
  '/'
  (
    (' $ANTLR')=> ' $ANTLR' SRC
    | ~(NLCHARS)*
  )

| // Multi-line comment, which may be a documentation comment
  // if it starts /** (note that we protect against accidentally
  // recognizing a comment /**/ as a documentation comment
  //
  /** (
    { input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
    | { true }?=> // Required to cover all alts with predicates
  )

  // Should we support embedded multiline comments here?
  //
  (
    // Pick out end of multiline comment and exit the loop
    // if we find it.
    //
    { !(input.LA(1) == '*' && input.LA(2) == '/') }?

```

```

        // Anything else other than the non-greedy match of
        // the comment close sequence
        //
        .
    )*
(
    // Look for the comment terminator, but if it is accidentally
    // unterminated, then we will hit EOF, which will trigger the
    // epsilon alt and hence we can issue an error message relative
    // to the start of the unterminated multi-line comment
    //
    /*'

|// Unterminated comment!
//
{
    // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
}
)

|// There was nothing that made sense following the opening '/' and so
// we issue an error regarding the malformed comment
//
{
    // TODO: Insert error message relative to comment start
    //
}
)
{
    // We do not wish to pass the comments in to the parser. If you are
    // writing a formatter then you will want to preserve the comments off
    // channel, but could just skip and save token space if not.
    //
    $channel=COMMENTS_CHANNEL;
}
;

```

ARG_OR_CHARSET

options {k=1;}

: {isLexerRule}?=> LEXER_CHAR_SET {\$type=LEXER_CHAR_SET;}

| {!isLexerRule}?=> ARG_ACTION

{

\$type=ARG_ACTION;

// Set the token text to our gathered string minus outer []

String t = \$text;

t = t.substring(1,t.length()-1);

setText(t);

```

    }
;

fragment
LEXER_CHAR_SET
: '['
  ( '\\ ~(\r|\n)
  | ~(\r|\n|\\|'] )
)*
']'
;

// -----
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
: '['
  (
    ARG_ACTION

    | ("")=>ACTION_STRING_LITERAL

    | ("\")=>ACTION_CHAR_LITERAL

    | ~('[']')
  )*
  '['
;

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by { }) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting { } is no additional overhead.
//
ACTION
```

```

: NESTED_ACTION
( '?' { $type = SEMPRED; }
( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_GATED_SEMPRED, t);
}
)?
)?
;

// -----
// Action structure
//
// Many language targets use { } as block delimiters and so we
// must recursively match { } delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertently match { }.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = getLine();
int offset = getCharPositionInLine();
}

: // Action and other blocks start with opening {
//
'{'
(
// And now we can match one of a number of embedded
// elements within the action until we find a
// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we believe to
// be mismatched. This won't be foolproof but we will

```

```

// be able to at least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

    // An embedded {} block
    //
    NESTED_ACTION

|// What appears to be a literal
//
    ACTION_CHAR_LITERAL

|// We have assumed that the target language has C/Java
// type comments.
//
    COMMENT

|// What appears to be a literal
//
    ACTION_STRING_LITERAL

|// What appears to be an escape sequence
//
    ACTION_ESC

|// Some other single character that is not
// handled above
//
    ~(\|'|\"|/|'{'|'})

)*

(
    // Correctly balanced closing brace
    //
    '}'

|// Looks like have an imbalanced {} block, report
// with respect to the opening brace.
//
    {
        // TODO: Report imbalanced {}
        System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing a }");
    }
)

```



```

;

// Keywords
// -----
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS   : 'options' WSNLCHARS* '{' ;
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;
CHANNELS   : 'channels' WSNLCHARS* '{' ;

IMPORT    : 'import'      ;
FRAGMENT  : 'fragment'   ;
LEXER     : 'lexer'      ;
PARSER    : 'parser'     ;
GRAMMAR   : 'grammar'    ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED : 'protected'  ;
PUBLIC    : 'public'     ;
PRIVATE   : 'private'    ;
RETURNS   : 'returns'    ;
LOCALS    : 'locals'     ;
THROWS    : 'throws'     ;
CATCH     : 'catch'      ;
FINALLY   : 'finally'    ;
MODE      : 'mode'       ;

// -----
// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON     : ':'
    {
        // scan backwards, looking for a RULE_REF or TOKEN_REF.
        // which would indicate the start of a rule definition.
        // If we see a LPAREN, then it's the start of the subrule.
        // this.tokens is the token string we are pushing into, so
        // just loop backwards looking for a rule definition. Then
        // we set isLexerRule.
        Token t = getRuleOrSubruleStartToken();
        if ( t!=null ) {
            if ( t.getType()==RULE_REF ) isLexerRule = false;

```

```

        else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
        // else must be subrule; don't alter context
    }
}
;
COLONCOLON  : '::'      ;
COMMA       : ','      ;
SEMI        : ';'      ;
LPAREN      : '('      ;
RPAREN      : ')'      ;
RARROW      : '->'     ;
LT          : '<'      ;
GT          : '>'      ;
ASSIGN      : '='      ;
QUESTION    : '?'      ;
SYNPRED     : '=>'    ;
{
    Token t = new CommonToken(input, state.type, state.channel,
        state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharacterPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_SYNPRED, t);
    $channel=HIDDEN;
}
;
STAR        : '*'      ;
PLUS        : '+'      ;
PLUS_ASSIGN : '+='     ;
OR          : '|'      ;
DOLLAR      : '$'      ;
DOT         : '.'      ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE       : '..'     ;
AT          : '@'      ;
POUND       : '#'      ;
NOT         : '~'      ;
RBRACE      : '}'      ;

/** Allow unicode rule/token names */
ID : a=NameStartChar NameChar*
{
    if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
    else $type = RULE_REF;
}
;

fragment
NameChar : NameStartChar

```

```

| '0'..'9'
| '_'
| '\u00B7'
| '\u0300'..\u036F'
| '\u203F'..\u2040'
;

```

fragment

NameStartChar

```

: 'A'..'Z' | 'a'..'z'
| '\u00C0'..\u00D6'
| '\u00D8'..\u00F6'
| '\u00F8'..\u02FF'
| '\u0370'..\u037D'
| '\u037F'..\u1FFF'
| '\u200C'..\u200D'
| '\u2070'..\u218F'
| '\u2C00'..\u2FEF'
| '\u3001'..\uD7FF'
| '\uF900'..\uFDCF'
| '\uFDF0'..\uFEFE'
| '\uFF00'..\uFFFD'
; // ignores | [\u10000-\uEFFFF] ;

```

// -----

// Literals embedded in actions

//

// Note that we have made the assumption that the language used within

// actions uses the fairly standard " and ' delimiters for literals and

// that within these literals, characters are escaped using the \ character.

// There are some languages which do not conform to this in all cases, such

// as by using /string/ and so on. We will have to deal with such cases if

// if they come up in targets.

//

// Within actions, or other structures that are not part of the ANTLR

// syntax, we may encounter literal characters. Within these, we do

// not want to inadvertently match things like '}' and so we eat them

// specifically. While this rule is called CHAR it allows for the fact that

// some languages may use/allow ' as the string delimiter.

//

fragment

ACTION_CHAR_LITERAL

```

: "\"" ((\\)=>ACTION_ESC | ~\" )* "\""
;

```

// Within actions, or other structures that are not part of the ANTLR

// syntax, we may encounter literal strings. Within these, we do

```

// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
: "" ((\\)=>ACTION_ESC | ~"")* ""
;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
: '\\ .
;

// -----
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
;

// -----
// Source spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
{
    // TODO: Add target specific code to change the source file name and current line number
    //
}
;

// -----
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx or \u{xxxxxx},

```

```

// where x is a valid hexadecimal number.
STRING_LITERAL
: "\"" ( ( ESC_SEQ | ~("\\"|\r|\n) ) ) *
  ( "\""
  | // Unterminated string literal
    {
      Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
      t.setLine(state.tokenStartLine);
      t.setText(state.text);
      t.setCharPositionInLine(state.tokenStartCharPositionInLine);
      grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
    }
  )
;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
: '\\'
  (
    // The standard escaped character set such as tab, newline, etc...
    'b'|'t'|'n'|'f'|'r'|'\"'|'\\'

    | // A Java style Unicode escape sequence
      UNICODE_ESC

    | // A Swift/Hack style Unicode escape sequence
      UNICODE_EXTENDED_ESC

    | // An illegal escape sequence
      ~(b|t|n|f|r|\"|\\|u) // \x for any invalid x (make sure to match char here)
    {
      Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
      t.setText(t.getText());
      t.setLine(input.getLine());
      t.setCharPositionInLine(input.getCharPositionInLine()-2);
      grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
    }
  )
;

```

```

fragment
UNICODE_ESC
@init {

    // Flag to tell us whether we have a valid number of
    // hex digits in the escape sequence
    //
    int hCount = 0;
}
: 'u' // Leadin for unicode escape sequence

    // We now require 4 hex digits. Note though
    // that we accept any number of characters
    // and issue an error if we do not get 4. We cannot
    // use an infinite count such as + because this
    // might consume too many, so we lay out the lexical
    // options and issue an error at the invalid paths.
    //
    (
        (
            HEX_DIGIT { hCount++; }
            (
                HEX_DIGIT { hCount++; }
                (
                    HEX_DIGIT { hCount++; }
                    (
                        // Four valid hex digits, we are good
                        //
                        HEX_DIGIT { hCount++; }

                    | // Three valid digits
                    )
                | // Two valid digits
                )
            | // One valid digit
            )
        | // No valid hex digits at all
        )

    // Now check the digit count and issue an error if we need to
    //
    {
        if (hCount < 4) {
            Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());

```

```

String lastChar = input.substring(badRange.b, badRange.b);
if ( lastChar.codePointAt(0)=="\") {
    badRange.b--;
}
String bad = input.substring(badRange.a, badRange.b);
Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
t.setLine(input.getLine());
t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
}
}
;

fragment
UNICODE_EXTENDED_ESC
: 'u{' // Leadin for unicode extended escape sequence

    HEX_DIGIT+ // One or more hexadecimal digits

    '}' // Leadout for unicode extended escape sequence

// Now check the digit count and issue an error if we need to
{
    int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
    if (numDigits > 6) {
        Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
        t.setText(t.getText());
        t.setLine(input.getLine());
        t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
    }
}
;

// -----
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
: (
    ' '
    | '\t'
    | '\r'

```

```

    | '\n'
    | '\f'
  )+
  {$channel=HIDDEN;}
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
: '\n' | '\r'
;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
: ' ' | '\t' | '\f'
;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
: ' ' | '\t' | '\f' | '\n' | '\r'
;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
: '\uFEFF' {skip();}
;

// -----
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr file anyway

```



```

// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
: .
{
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
    grammarError(ErrorType.SYNTAX_ERROR, t, msg);
    state.syntaxErrors++;
    skip();
}
;

```

Found in path(s):

* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.g

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*/

/** templates used to generate make-compatible dependencies */

/** Generate "f : x, y, z" dependencies for input

* dependencies and generated files. in and out

* are File objects. For example, you can say

* <f.canonicalPath>

*/

dependencies(grammarFileName,in,out) ::= <<

<if(in)><grammarFileName>: <in; separator=", "><endif>

<out:{f | <f> : <grammarFileName>}; separator="\n">

>>

Found in path(s):

* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/templates/depend.stg

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 */
```

```
tree grammar ATNBuilder;
```

```
options {
  language = Java;
  tokenVocab = ANTLRParser;
  ASTLabelType = GrammarAST;
  // filter = true;
}
```

```
// Include the copyright in this source and also the generated source
```

```
@header {
```

```
/*
```

```
[The "BSD license"]
```

```
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```

```
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```

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```
*/
```

```
package org.antlr.v4.parse;  
import org.antlr.v4.tool.*;  
import org.antlr.v4.tool.ast.*;  
import org.antlr.v4.automata.ATNFactory;  
}
```

```
@members {  
    ATNFactory factory;  
    public ATNBuilder(TreeNodeStream input, ATNFactory factory) {  
        this(input);  
        this.factory = factory;  
    }  
}
```

```
dummy : block[null] ; // avoid error about no start rule
```

```
ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]  
@init {  
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();  
    int alt = 1;  
    factory.setCurrentOuterAlt(alt);  
}  
: ^(BLOCK  
    (^ (OPTIONS .*)?  
    ( a=alternative  
        {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}  
    )+  
    )  
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
```

```

;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
: ^(BLOCK (^OPTIONS .*)? (a=alternative {alts.add($a.p);})+
  {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
: ^(LEXER_ALT_ACTION a=alternative lexerCommands)
  {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
| ^(ALT elementOptions? EPSILON)    {$p = factory.epsilon($EPSILON);}
| ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
: (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
  {
  $p = factory.alt(cmds);
  }
;

lexerCommand returns [ATNFactory.Handle cmd]
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
| ID
  {$cmd = factory.lexerCommand($ID);}
;

lexerCommandExpr
: ID
| INT
;

element returns [ATNFactory.Handle p]
: labeledElement {$p = $labeledElement.p;}
| atom    {$p = $atom.p;}
| subrule {$p = $subrule.p;}
| ACTION  {$p = factory.action((ActionAST)$ACTION);}
| SEMPRED {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(ACTION .) {$p = factory.action((ActionAST)$ACTION);}
| ^(SEMPRED .) {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(NOT b=blockSet[true]) {$p = $b.p;}
| LEXER_CHAR_SET {$p = factory.charSetLiteral($start);}
;

```

```

astOperand returns [ATNFactory.Handle p]
: atom    {$p = $atom.p;}
| ^(NOT blockSet[true]) {$p = $blockSet.p;}
;

```

```

labeledElement returns [ATNFactory.Handle p]
: ^(ASSIGN ID element) {$p = factory.label($element.p);}
| ^(PLUS_ASSIGN ID element) {$p = factory.listLabel($element.p);}
;

```

```

subrule returns [ATNFactory.Handle p]
: ^(OPTIONAL block[$start]) {$p = $block.p;}
| ^(CLOSURE block[$start]) {$p = $block.p;}
| ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
| block[null] {$p = $block.p;}
;

```

```

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
: ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
;

```

*/** Don't combine with atom otherwise it will build spurious ATN nodes */*

```

setElement
: ^(STRING_LITERAL .)
| ^(TOKEN_REF .)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
| LEXER_CHAR_SET
;

```

```

atom returns [ATNFactory.Handle p]
: range {$p = $range.p;}
| ^(DOT ID terminal) {$p = $terminal.p;}
| ^(DOT ID ruleref) {$p = $ruleref.p;}
| ^(WILDCARD .) {$p = factory.wildcard($start);}
| WILDCARD {$p = factory.wildcard($start);}
| blockSet[false] {$p = $blockSet.p;}
| terminal {$p = $terminal.p;}
| ruleref {$p = $ruleref.p;}
;

```

```

ruleref returns [ATNFactory.Handle p]
: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*)) {$p = factory.ruleRef($RULE_REF);}
| ^(RULE_REF ARG_ACTION?) {$p = factory.ruleRef($RULE_REF);}
| RULE_REF {$p = factory.ruleRef($RULE_REF);}
;

```

range returns [ATNFactory.Handle p]

```
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
;
```

terminal returns [ATNFactory.Handle p]

```
: ^(STRING_LITERAL .) {$p = factory.stringLiteral((TerminalAST)$start);}
| STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
| ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
| ^(TOKEN_REF .) {$p = factory.tokenRef((TerminalAST)$start);}
| TOKEN_REF {$p = factory.tokenRef((TerminalAST)$start);}
;
```

elementOptions

```
: ^(ELEMENT_OPTIONS elementOption*)
;
```

elementOption

```
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;
```

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 */

```
tree grammar BlockSetTransformer;
```

```
options {
  language = Java;
  tokenVocab = ANTLRParser;
  ASTLabelType = GrammarAST;
  output = AST;
  filter = true;
}
```

```
@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}
```

```
@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
  this(input, new RecognizerSharedState());
  this.g = g;
}
}
```

```
topdown
: ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
| setAlt
| ebnfBlockSet
| blockSet
```



```

;

setAlt
: {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID))))))
ebnfBlockSet
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
;

ebnfSuffix
@after { $tree = (GrammarAST)adaptor.dupNode($start);}
: OPTIONAL
  | CLOSURE
  | POSITIVE_CLOSURE
;

blockSet
@init {
  boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}? // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
  elementOptions? setElement[inLexer]) )+ )
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
  "SET"] setElement+)))
  | {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+ )
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
;

setElement[boolean inLexer]
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
  CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 }?
  | a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 }?
  | {!inLexer}?=> ^(TOKEN_REF elementOptions)
  | {!inLexer}?=> TOKEN_REF

```

```
| {inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 &&
CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
)
;
```

```
elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;
```

```
elementOption
: ID
| ^(ASSIGN id=ID v=ID)
| ^(ASSIGN ID v=STRING_LITERAL)
| ^(ASSIGN ID v=ACTION)
| ^(ASSIGN ID v=INT)
;
```

Found in path(s):

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/parse/BlockSetTransformer.g
```

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```

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* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.stg

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Found in path(s):

* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/parse/ANTLRParser.java

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*/

```

```
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
    <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);}; separator="\n">
    }
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>

```

```

<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
    <file.listenerNames:{Iname |
    /// \<summary>
    <if(file.listenerLabelRuleNames.(Iname))>
    /// Enter a parse tree produced by the \<c><Iname>\</c>
    /// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>"/>.
    <else>
    /// Enter a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
    <endif>
    /// \<para>The default implementation does nothing.\</para>
    /// \</summary>
    /// \<param name="context">The parse tree.\</param>
    public virtual void Enter<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
    format="cap">Context context) { \}
    /// \<summary>
    <if(file.listenerLabelRuleNames.(Iname))>
    /// Exit a parse tree produced by the \<c><Iname>\</c>
    /// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>"/>.
    <else>
    /// Exit a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
    <endif>
    /// \<para>The default implementation does nothing.\</para>
    /// \</summary>
    /// \<param name="context">The parse tree.\</param>
    public virtual void Exit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
    format="cap">Context context) { \} }; separator="\n"

    /// \<inheritdoc>
    /// \<remarks>The default implementation does nothing.\</remarks>
    public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { \}

```

```

/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

VisitorFile(file, header, namedActions) ::= <<

```

```

<fileHeader(file.grammarFileName, file.ANTLRVersion)>

```

```

<if(file.genPackage)>

```

```

namespace <file.genPackage> {

```

```

<endif>

```

```

<header>

```

```

using Antlr4.Runtime.Misc;

```

```

using Antlr4.Runtime.Tree;

```

```

using IToken = Antlr4.Runtime.IToken;

```

```

/// \<summary>

```

```

/// This interface defines a complete generic visitor for a parse tree produced

```

```

/// by \<see cref="<csIdentifier.(file.parserName)>">/>.

```

```

/// \</summary>

```

```

/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>

```

```

[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]

```

```

[System.CLSCompliant(false)]

```

```

public interface I<file.grammarName>Visitor<Result> : IParseTreeVisitor<Result> {

```

```

    <file.visitorNames> { Iname |

```

```

    /// \<summary>

```

```

    <if(file.visitorLabelRuleNames.(Iname))>

```

```

    /// Visit a parse tree produced by the \<c><Iname>\</c>

```

```

    /// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>">/>.

```

```

    <else>

```

```

    /// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>">/>.

```

```

    <endif>

```

```

    /// \</summary>

```

```

    /// \<param name="context">The parse tree.\</param>

```

```

    /// \<return>The visitor result.\</return>

```

```

    Result Visit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
    context);}; separator="\n">

```

```

    }

```

```

    <if(file.genPackage)>

```

```

} // namespace <file.genPackage>
<endif>
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}" />,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor<Result> : AbstractParseTreeVisitor<Result>,
I<file.grammarName>Visitor<Result> {
    <file.visitorNames>: { Iname |
    /// \<summary>
    <if(file.visitorLabelRuleNames.(Iname))>
    /// Visit a parse tree produced by the \<c><Iname>\</c>
    /// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>" />.
    <else>
    /// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>" />.
    <endif>
    /// \<para>
    /// The default implementation returns the result of calling \<see
    cref="AbstractParseTreeVisitor{Result}.VisitChildren(IRuleNode)" />
    /// on \<paramref name="context" />.
    /// \</para>
    /// \</summary>
    /// \<param name="context">The parse tree.\</param>
    /// \<return>The visitor result.\</return>
    public virtual Result Visit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
    format="cap">Context context) { return VisitChildren(context); \}; separator="\n">
    }
    <if(file.genPackage)>
    } // namespace <file.genPackage>
<endif>
>>

```



```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//-----
//\<auto-generated>
// This code was generated by a tool.
// ANTLR Version: <ANTLRVersion>
//
// Changes to this file may cause incorrect behavior and will be lost if
// the code is regenerated.
//\</auto-generated>
//-----

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(parser.name)> : <superClass; null="Parser"> {
protected static DFA[] decisionToDFA;
protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
<if(parser.tokens)>
public const int
<parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
public const int
<parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
public static readonly string[] ruleNames = {
<parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

<vocabulary(parser.literalNames, parser.symbolicNames)>

public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

```

```

public override string[] RuleNames { get { return ruleNames; } }

public override string SerializedAtn { get { return new string(_serializedATN); } }

static <csIdentifier.(parser.name)>() {
    decisionToDFA = new DFA[_ATN.NumberOfDecisions];
    for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
        decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
    }
}

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <parser.sempredFuncs.values:{f}
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
    <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
    <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
    get
    {
        return DefaultVocabulary;
    }
}

```

```

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values: {f|
case <f.ruleIndex> : <f.name>_action(<if(!recog.modes)><f.ctxType><endif>_localctx, actionIndex); break;};
separator="\n">
        }
    }
    <actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <recog.sempredFuncs.values: {f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)><f.ctxType><endif>_localctx, predIndex);};
separator="\n">
        }
    return true;
    }
    <sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(parser) ::= <<
    public <csIdentifier.(parser.name)>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

    public <csIdentifier.(parser.name)>(ITokenStream input, TextWriter output, TextWriter errorOutput)
    : base(input, output, errorOutput)
    {
        Interpreter = new ParserATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
    }
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
    switch (actionIndex) {
        <actions: {index|
case <index>: <actions.(index)> break;}; separator="\n">
        }
    }
>>

```

```
/* This generates a private method since the predIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
```

```
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
  switch (predIndex) {
    <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
  }
  return true;
}
>>
```

```
RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
```

```
<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
```

```
[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>>);
  EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
    <if(currentRule.hasLookaheadBlock)>
      int _alt;
    <endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  }
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
  }
  <endif>
  finally {
    <finallyAction>
```

```

    ExitRule();
}
return _localctx;
}
>>

```

```

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier(currentRule.name)><(args; separator=", "> {
    <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier(a.name)>}>);
    EnterLeftFactoredRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
    <namedActions.init>
    <locals; separator="\n">
    try {
    <if(currentRule.hasLookaheadBlock)>
        int _alt;
    <endif>
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    }
    catch (RecognitionException re) {
        _localctx.exception = re;
        ErrorHandler.ReportError(this, re);
        ErrorHandler.Recover(this, re);
    }
    finally {
        <finallyAction>
        ExitRule();
    }
    return _localctx;
}
>>

```

```

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.

```

```

LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier(currentRule.name)><(args; separator=", "> {
    <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier(a.name)>}>);
    EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);

```

```

<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
catch (RecognitionException re) {
_localctx.exception = re;
ErrorHandler.ReportError(this, re);
ErrorHandler.Recover(this, re);
}
finally {
<finallyAction>
ExitRule();
}
return _localctx;
}
>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

```

```

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
return <csIdentifier.(currentRule.name)><(0<currentRule.args:{a | , <csIdentifier.(a.name)>}>>);
}

```

```

private <currentRule.ctxType> <csIdentifier.(currentRule.name)><(int _p<args:{a | , <a>}>> {
ParserRuleContext _parentctx = Context;
int _parentState = State;
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>>);
<currentRule.ctxType> _prevctx = _localctx;
int _startState = <currentRule.startState>;
EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>

```

```

    int _alt;
<endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
    }
    catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
    }
    finally {
    <finallyAction>
    UnrollRecursionContexts(_parentctx);
    }
    return _localctx;
    }
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
if (<expr>) {
<alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
<alts; separator="\n">
State = <choice.loopBackStateNumber>;
ErrorHandler.Sync(this);
<iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
<alts; separator="\n">
State = <choice.stateNumber>;<! loopback/exit decision !>
ErrorHandler.Sync(this);
<iteration>
} while ( <loopExpr> );
>>

```

```

// LL(*) stuff

```



```

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{ alt |
case <i>:
<alt>
break;}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{ alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
State = <choice.loopBackStateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch ( _alt ) {
<alts:{ alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>

```

```

break;}; separator="\n">
default:
  <error>
}
State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "Sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>} ; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<< <offsetShift(tokenType.(ttype), bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<tokenType.(ttype)>} ; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <tokenType.(t)>:}; separator="\n">
>>

```

```

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>; <if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif><csIdentifier.(r.name)><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><arg
ExprsChunks>;
>>

```

```

MatchToken(m) ::= <<
State = <m.stateNumber>; <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

```

```

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

```

```

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

```

```

CommonSetStuff(m, expr, capture, invert) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif><(expr)> ) {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
  ErrorHandler.ReportMatch(this);
  Consume();
}
>>

```

```

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>MatchWildcard();
>>

```

```

// ACTION STUFF

```

```

Action(a, foo, chunks) ::= "<chunks>"

```

```

ArgAction(a, chunks) ::= "<chunks>"

```

```

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

```

```

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
  <catchAction>
}

```

>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "Skip()";

LexerMoreCommand() ::= "More()";

LexerPopModeCommand() ::= "PopMode()";

LexerTypeCommand(arg, grammar) ::= "_type = <tokenType.(arg)>";

LexerChannelCommand(arg, grammar) ::= "_channel = <channelName.(arg)>";

LexerModeCommand(arg, grammar) ::= "_mode = <modeName.(arg)>";

LexerPushModeCommand(arg, grammar) ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"

ActionTemplate(t) ::= "<t.st>"

ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"

LocalRef(a) ::= "_localctx.<csIdentifier.(a.name)>"

RetValRef(a) ::= "_localctx.<csIdentifier.(a.name)>"

QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"

/** How to translate \$tokenLabel */

TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"

LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"

ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"

SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>";"

TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>"

InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"

TokenPropertyRef_type(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"

TokenPropertyRef_line(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"

TokenPropertyRef_pos(t) ::=

"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"

TokenPropertyRef_channel(t) ::=

"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"

TokenPropertyRef_index(t) ::=

"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"

TokenPropertyRef_int(t) ::=

"<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"

RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"

RulePropertyRef_text(r) ::=

"<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"

RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"

RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"

```

ThisRulePropertyRef_stop(r) ::= "_localctx.Stop"
ThisRulePropertyRef_text(r) ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks) ::=
<%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>);"
TokenListDecl(t) ::= "IList<IToken> <csIdentifier.(tokenType.(t.name))> = new List<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"
RuleContextListDecl(rdecl) ::= "IList<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new
List<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t) ::=
"public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t) ::= <<
public <contextGetterCollection("ITerminalNode")> <csIdentifier.(tokenType.(t.name))>() { return
GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int i) {
return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
}
>>
ContextRuleGetterDecl(r) ::= <<
public <r.ctxName> <csIdentifier.(r.name)>() {
return GetRuleContext<<r.ctxName>>()();
}
>>
ContextRuleListGetterDecl(r) ::= <<
public <contextGetterCollection({<r.ctxName>})> <csIdentifier.(r.name)>() {
return GetRuleContexts<<r.ctxName>>();
}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <csIdentifier.(r.name)>(int i) {

```

```

return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers,
    superClass={ParserRuleContext}) ::= <<
public partial class <struct.name> :
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
}<endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>>>)
: base(parent, invokingState)
{
<struct.ctorAttrs:{a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;}; separator="\n">
}
public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)><! don't need copy unless we have subclasses !>
public <struct.name>() { }
public virtual void CopyFrom(<struct.name> context) {
base.CopyFrom(context);
<struct.attrs:{a | this.<csIdentifier.(a.name)> = context.<csIdentifier.(a.name)>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public partial class <struct.name> : <currentRule.name; format="cap">Context {

```

```

<attrs:{ a | public <a>;}; separator="\n">
<getters:{ g | <g>;}; separator="\n">
public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
<dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
public override TResult Accept<TResult>(IParseTreeVisitor<TResult> visitor) {
I<parser.grammarName>Visitor<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor<TResult>;
if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
else return visitor.VisitChildren(this);
}
>>

```

```

AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

```

```

/** If we don't know location of label def x, use this template */

```

```

labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><csIdentifier.(x.name)>"

```

```

/** For any action chunk, what is correctly-typed context struct ptr? */

```

```

ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

```

```

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)

```

```

typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

```

```

// used for left-recursive rules

```

```

recRuleAltPredicate(ruleName,opPrec) ::= "Precpred(Context, <opPrec>)"

```

```

recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>";"

```

```

recRuleSetStopToken() ::= "Context.Stop = TokenStream.LT(-1);"

```

```

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<

```

```

_localctx = new <ctxName>Context(_parentctx, _parentState);

```

```

<if(label)>

```

```

<if(isListLabel)>

```

```

_localctx.<label>.Add(_prevctx);

```

```

<else>

```

```

_localctx.<label> = _prevctx;

```

```

<endif>

```

```

<endif>

```

```

PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
    TriggerExitRuleEvent();
_prevctx = _localctx;
>>

LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```



```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
    protected static DFA[] decisionToDFA;
    protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
    public const int
        <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
    <if(lexer.channels)>
    public const int
        <lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
    <endif>
    <if(rest(lexer.modes)>
    public const int
        <rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>;
    <endif>
    public static string[] channelNames = {
        "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c | "<c">"}; separator=", ",
wrap, anchor><endif>
    };

    public static string[] modeNames = {
        <lexer.modes:{m | "<m">"}; separator=", ", wrap, anchor>
    };

    public static readonly string[] ruleNames = {
        <lexer.ruleNames:{r | "<r">"}; separator=", ", wrap, anchor>
    };

    <namedActions.members>

    public <csIdentifier.(lexer.name)>(ICharStream input)
    : this(input, Console.Out, Console.Error) { }

    public <csIdentifier.(lexer.name)>(ICharStream input, TextWriter output, TextWriter errorOutput)
    : base(input, output, errorOutput)
    {
        Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
    }

    <vocabulary(lexer.literalNames, lexer.symbolicNames)>

    public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

    public override string[] RuleNames { get { return ruleNames; } }

    public override string[] ChannelNames { get { return channelNames; } }

```

```

public override string[] ModeNames { get { return modeNames; } }

public override string SerializedAtn { get { return new string(_serializedATN); } }

static <csIdentifier.(lexer.name)>() {
    decisionToDFA = new DFA[_ATN.NumberOfDecisions];
    for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
        decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
    }
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

```

```

SerializedATN(model) ::= <<
private static char[] _serializedATN = {
    <model.serialized; separator=" ", wrap>,
};

public static readonly ATN _ATN =
    new ATNDeserializer().Deserialize(_serializedATN);

```

>>

```

initValue(typeName) ::= <<
default(<typeName>)
>>

```

```

codeFileExtension() ::= ".cs"

```

```

modeName ::= [
    "DEFAULT_MODE" : "DefaultMode",
    default : key
]

```

```

channelName ::= [
    "HIDDEN" : "Hidden",
    "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
    default : key
]

```

```

tokenType ::= [
    "EOF" : "Eof",
    default : key
]

```

]

```
csIdentifier ::= [  
  "abstract" : "@abstract",  
  "as" : "@as",  
  "base" : "@base",  
  "bool" : "@bool",  
  "break" : "@break",  
  "byte" : "@byte",  
  "case" : "@case",  
  "catch" : "@catch",  
  "char" : "@char",  
  "checked" : "@checked",  
  "class" : "@class",  
  "const" : "@const",  
  "continue" : "@continue",  
  "decimal" : "@decimal",  
  "default" : "@default",  
  "delegate" : "@delegate",  
  "do" : "@do",  
  "double" : "@double",  
  "else" : "@else",  
  "enum" : "@enum",  
  "event" : "@event",  
  "explicit" : "@explicit",  
  "extern" : "@extern",  
  "false" : "@false",  
  "finally" : "@finally",  
  "fixed" : "@fixed",  
  "float" : "@float",  
  "for" : "@for",  
  "foreach" : "@foreach",  
  "goto" : "@goto",  
  "if" : "@if",  
  "implicit" : "@implicit",  
  "in" : "@in",  
  "int" : "@int",  
  "interface" : "@interface",  
  "internal" : "@internal",  
  "is" : "@is",  
  "lock" : "@lock",  
  "long" : "@long",  
  "namespace" : "@namespace",  
  "new" : "@new",  
  "null" : "@null",  
  "object" : "@object",  
  "operator" : "@operator",  
  "out" : "@out",
```

```
"override" : "@override",
"params" : "@params",
"private" : "@private",
"protected" : "@protected",
"public" : "@public",
"readonly" : "@readonly",
"ref" : "@ref",
"return" : "@return",
"sbyte" : "@sbyte",
"sealed" : "@sealed",
"short" : "@short",
"sizeof" : "@sizeof",
"stackalloc" : "@stackalloc",
"static" : "@static",
"string" : "@string",
"struct" : "@struct",
"switch" : "@switch",
"this" : "@this",
"throw" : "@throw",
>true" : "@true",
"try" : "@try",
"typeof" : "@typeof",
"uint" : "@uint",
"ulong" : "@ulong",
"unchecked" : "@unchecked",
"unsafe" : "@unsafe",
"ushort" : "@ushort",
"using" : "@using",
"virtual" : "@virtual",
"values" : "@values",
"void" : "@void",
"volatile" : "@volatile",
"while" : "@while",
default : key
]
```

Found in path(s):

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
```

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* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/parse/ANTLRParser.g
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*/
```

```
lexer grammar ActionSplitter;
```

```
options { filter=true; }
```

```
@header {
```

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}
```

```
@members {
```

```
ActionSplitterListener delegate;
```

```
public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
    this(input, new RecognizerSharedState());
    this.delegate = delegate;
}
```

```
/** force filtering (and return tokens). triggers all above actions. */
```

```
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}
```

```
private boolean isIDStartChar(int c) {
    return c == '_' || Character.isLetter(c);
}
}
```

```
// ignore comments right away
```

```
COMMENT
```

```
: '/' ( options { greedy=false; } : . )* '*' { delegate.text($text); }
;
```

```
LINE_COMMENT
```

```
: '/' ~('\n'|\r)* '\r'? '\n' { delegate.text($text); }
;
```

```

SET_NONLOCAL_ATTR
: '$ x=ID ':' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
  delegate.setNonLocalAttr($text, $x, $y, $expr);
}
;

NONLOCAL_ATTR
: '$ x=ID ':' y=ID {delegate.nonLocalAttr($text, $x, $y);}
;

QUALIFIED_ATTR
: '$ x=ID '!' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
;

SET_ATTR
: '$ x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
  delegate.setAttr($text, $x, $expr);
}
;

ATTR
: '$ x=ID {delegate.attr($text, $x);}
;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
: ( c=~('\| '$) {buf.append((char)$c);}
| '\$' {buf.append('$);}
| '\ c=~('$) {buf.append('\').append((char)$c);}
| {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$);}
)+
;

fragment
ID : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
: ~'=' (~';)*
;

fragment

```

```
WS : ('\\t|\\n|\\r')+;
```

Found in path(s):

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/parse/ActionSplitter.g
```

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```

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```

```
*/
```

```
atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
```

```
digraph ATN {
```

```
rankdir=LR;
```

```
<decisionRanks; separator="\n">
```

```
<states; separator="\n">
```

```
<edges; separator="\n">
```

```
}
```

```
>>
```

```
dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
```

```
digraph <name> {
```



```

<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>

decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator=" "; }
>>

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
label="
    <! rest(transition) tests for decision states: these nodes have a non-empty set of transitions after the first one. !>
    <if(rest(transitions))>
        {
            <! Label on the left side of the record node. !>
            <label>
            |
            <! Named ports in order on right side of record node, no display text. !>
            {<transitions:{t|\<p>i0>>}; separator="|">}
        }
    <else>
        <label>
    <endif>
    "
    <if(rest(transitions))>
        , shape=record, fixedsize=false
    <else>
        , shape=circle, fixedsize=true, width=.55
    <endif>
    , peripheries=1];
%>

```

```
stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsized=false<else>shape=doublecircle, fixedsized=true,
width=.6<endif>];
>>
```

Found in path(s):

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/tool/templates/dot/graphs.stg
```

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```

```
*/
```

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```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/parse/GrammarTreeVisitor.java
```

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```

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*/

/** ANTLR tool checks output templates are compatible with tool code generation.

* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/

```
pythonTypeInitMap ::= [  
  "bool": "False",  
  "int": "0",  
  "float": "0.0",  
  "str": "",  
  default: "None" // anything other than a primitive type is an object  
]
```

// args must be <object-model-object>, <fields-resulting-in-STs>

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<  
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```

# encoding: utf-8
from antlr4 import *
from io import StringIO
from typing.io import TextIO
import sys

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

    <file.listenerNames>: {lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

}; separator="\n">

>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

```

```

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames: {lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    sharedContextCache = PredictionContextCache()

    literalNames = [ <parser.literalNames: {t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor> ]

    symbolicNames = [ <parser.symbolicNames: {t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor> ]

    <parser.rules: {r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

    ruleNames = [ <parser.ruleNames: {r | "<r>"}; separator=", ", wrap, anchor> ]

```

```

EOF = <TokenLabelType(>.EOF
<if(parser.tokens)>
<parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
<endif>

<parser:(ctor)(>

<namedActions.members>

<funcs; separator="\n">

<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates == None:
        self._predicates = dict()
<parser.sempredFuncs.values:{f |
    self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n    ">
    pred = self._predicates.get(ruleIndex, None)
    if pred is None:
        raise Exception("No predicate with index:" + str(ruleIndex))
    else:
        return pred(localctx, predIndex)

<sempredFuncs.values; separator="\n">
<endif>

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values:{f|
    actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
    self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

```

```

<endif>
<if( sempredFuncs )>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates is None:
        preds = dict()
    <recog.sempredFuncs.values: {f
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input:TokenStream, output:TextIO = sys.stdout):
    super().__init__(input, output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
    <actions: {index|
    <if(first(actions))>
        if actionIndex == <index>:
            <actions.(index)>
    <elseif(rest(actions))>
        elif actionIndex == <index>:
            <actions.(index)>
    <endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):

```

```

    <actions: { index|
<if(first(actions))>
    if predIndex == <index>:
        return <actions.(index)>
<elseif(rest(actions))>
    elif predIndex == <index>:
        return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs: {l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args: { a | , <a.name><if(a.type)>:<a.type><endif> }>):

    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args: { a | , <a.name> }>)
    self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    <endif>
    finally:
        <finallyAction>
        self.exitRule()
    return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>

```



```
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
```

```
def <currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):  
  _parentctx = self._ctx  
  _parentState = self.state  
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)  
  _prevctx = localctx  
  _startState = <currentRule.startState>  
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)  
  <namedActions.init>  
  <locals; separator="\n">  
  try:  
    <code>  
    <postamble; separator="\n">  
    <namedActions.after>  
  except RecognitionException as re:  
    localctx.exception = re  
    self._errHandler.reportError(self, re)  
    self._errHandler.recover(self, re)  
  finally:  
    <finallyAction>  
    self.unrollRecursionContexts(_parentctx)  
  return localctx
```

```
>>
```

```
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<  
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel>;  
format="cap">Context(self, localctx)<endif>  
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)  
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>  
>>
```

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<  
<locals; separator="\n">  
<preamble; separator="\n">  
<ops; separator="\n">  
>>
```

```
LL1AltBlock(choice, preamble, alts, error) ::= <<  
self.state = <choice.stateNumber>  
self._errHandler.sync(self)  
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>  
<preamble; separator="\n">  
token = self._input.LA(1)  
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>  
  <alt>  
  pass}; separator="\n1">
```

```
else:  
    <error>
```

```
>>
```

```
LL1OptionalBlock(choice, alts, error) ::= <<  
self.state = <choice.stateNumber>  
self._errHandler.sync(self)  
token = self._input.LA(1)  
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>  
    <alt>  
    pass}; separator="\n1">  
else:  
    pass  
>>
```

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<  
self.state = <choice.stateNumber>  
self._errHandler.sync(self)  
<preamble; separator="\n">  
if <expr>:  
    <alts; separator="\n">  
  
<!else if ( !(<followExpr> ) ) <error>!>  
>>
```

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<  
self.state = <choice.stateNumber>  
self._errHandler.sync(self)  
<preamble; separator="\n">  
while <loopExpr>:  
    <alts; separator="\n">  
    self.state = <choice.loopBackStateNumber>  
    self._errHandler.sync(self)  
    <iteration>  
  
>>
```

```
LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<  
self.state = <choice.blockStartStateNumber> <! alt block decision !>  
self._errHandler.sync(self)  
<preamble; separator="\n">  
while True:  
    <alts; separator="\n">  
    self.state = <choice.stateNumber> <! loopback/exit decision !>  
    self._errHandler.sync(self)  
    <iteration>
```

```

    if not (<loopExpr>):
        break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
    <alt>
    pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
    if _alt==1<if(!choice.ast.greedy)>+1<endif>:
        <iteration>
        <alts> <! should only be one !>
    self.state = <choice.loopBackStateNumber>
    self._errHandler.sync(self)
    _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>

```

```

self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
    <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
}; separator="\n"|>
    else:
        <error>
        self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
        self._errHandler.sync(self)
        _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>}) and ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)}); separator=" | ">) != 0
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

```

```

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>===<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)
else:
    self._errHandler.reportMatch(self)
    self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<

```

```

self.state = <p.stateNumber>
if not <chunks>:
    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

```

```

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

```

// lexer actions are not associated with model objects

```

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

```

```

LexerTypeCommand(arg, grammar) ::= "_type = <arg>"
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>"
LexerModeCommand(arg, grammar) ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>)"

```

```

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

```

```

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

```

```

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type()"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

```

```

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"

```

```

RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i:int=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)
>>

```

```

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r) ::= <<
def <r.name>(self, i:int=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

    def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.name><if(a.type)>:<a.type><endif>=None}>):
        super().__init__(parent, invokingState)
        self.parser = parser
        <attrs:{a | <a>}; separator="\n">
        <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

        <getters:{g | <g>}; separator="\n\n">

    def getRuleIndex(self):
        return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)><! don't need copy unless we have subclasses !>
    def copyFrom(self, ctx:ParserRuleContext):

```



```

    super().copyFrom(ctx)
    <struct.attrs:{ a | self.<a.name> = ctx.<a.name> }; separator="\n">

<endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name><(currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
        super().__init__(parser)
        <attrs:{ a | <a> }; separator="\n">
        self.copyFrom(ctx)

    <getters:{ g | <g> }; separator="\n">

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
    if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
    if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

```

```

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
from typing.io import TextIO
import sys

<namedActions.header>

<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>
<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.channels)>
    <lexer.channels:{c| <c> = <lexer.channels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.modes)>
    <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

<endif>
    <lexer.tokens:{k| <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

    channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channels)>, <lexer.channels:{c|
u"<c>"}; separator=", ", wrap, anchor><endif> ]

    modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

    literalNames = [ "\<INVALID>",
        <lexer.literalNames:{t| <t>}; separator=", ", wrap, anchor> ]

    symbolicNames = [ "\<INVALID>",
        <lexer.symbolicNames:{t| <t>}; separator=", ", wrap, anchor> ]

    ruleNames = [ <lexer.ruleNames:{r| "<r>"}; separator=", ", wrap, anchor> ]

    grammarFileName = "<lexer.grammarFileName>"

    def __init__(self, input=None, output:TextIO = sys.stdout):
        super().__init__(input, output)
        self.checkVersion("<lexerFile.ANTLRVersion>")
        self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
        self._actions = None
        self._predicates = None

```

```

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
    with StringIO() as buf:
        buf.write("<model.serialized; wrap={ }<\n>    buf.write(" }>")
        return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
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*/

Found in path(s):

* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/gui/GraphicsSupport.java

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*/

```
tree grammar SourceGenTriggers;
```

```
options {
```

```
language = Java;
```

```
tokenVocab = ANTLRParser;
```

```
ASTLabelType = GrammarAST;
```

```
}
```

```
@header {
```

```
package org.antlr.v4.codegen;
```

```
import org.antlr.v4.misc.Utils;
```

```
import org.antlr.v4.codegen.model.*;
```

```
import org.antlr.v4.codegen.model.decl.*;
```

```
import org.antlr.v4.tool.*;
```

```
import org.antlr.v4.tool.ast.*;
```

```
import java.util.Collections;
```

```
import java.util.Map;
```

```
import java.util.HashMap;
```

```
}
```

```
@members {
```

```
public OutputModelController controller;
```

```
public boolean hasLookaheadBlock;
```

```
public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
```

```
    this(input);
```

```
    this.controller = controller;
```

```
}
```

```
}
```

```
dummy : block[null, null] ;
```

```
block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
```

```
: ^( blk=BLOCK (^ (OPTIONS .+))?)
```

```
{ List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
```

```
  ( alternative { alts.add($alternative.altCodeBlock); } )+
```

```
  )
```

```
  {
```

```
    if ( alts.size()==1 && ebnfRoot==null) return alts;
```

```
    if ( ebnfRoot==null ) {
```

```
        Somos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
```

```
    }
```

```
    else {
```

```
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
```

```
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
```

```
        Somos = DefaultOutputModelFactory.list(choice);
```

```
    }
```

```

    }
    ;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
    boolean outerMost = inContext("RULE BLOCK");
}
@after {
    controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] { $altCodeBlock=$a.altCodeBlock; $ops=$a.ops; }
;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
    // set alt if outer ALT only (the only ones with alt field set to Alternative object)
    AltAST altAST = (AltAST)retval.start;
    if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
    List<SrcOp> elems = new ArrayList<SrcOp>();
    // TODO: shouldn't we pass $start to controller.alternative()?
    $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
    $altCodeBlock.ops = $ops = elems;
    controller.setCurrentBlock($altCodeBlock);
}
^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

| ^(ALT elementOptions? EPSILON)
    { $altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost); }
;

element returns [List<? extends SrcOp> omos]
: labeledElement { $omos = $labeledElement.omos; }
| atom[null,false] { $omos = $atom.omos; }
| subrule { $omos = $subrule.omos; }
| ACTION { $omos = controller.action((ActionAST)$ACTION); }
| SEMPRED { $omos = controller.sempred((ActionAST)$SEMPRED); }
| ^(ACTION elementOptions) { $omos = controller.action((ActionAST)$ACTION); }
| ^(SEMPRED elementOptions) { $omos = controller.sempred((ActionAST)$SEMPRED); }
;

labeledElement returns [List<? extends SrcOp> omos]
: ^(ASSIGN ID atom[$ID,false] ) { $omos = $atom.omos; }
| ^(PLUS_ASSIGN ID atom[$ID,false]) { $omos = $atom.omos; }
| ^(ASSIGN ID block[$ID,null] ) { $omos = $block.omos; }
| ^(PLUS_ASSIGN ID block[$ID,null]) { $omos = $block.omos; }
;

```

```

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block[null,$OPTIONAL])
{
  $omos = $block.omos;
}
| ( ^(op=CLOSURE b=block[null,null])
| ^(op=POSITIVE_CLOSURE b=block[null,null])
)
{
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
  hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
  $omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null] { $omos = $block.omos; }
;

```

```

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(SET atom[label,invert]+) { $omos = controller.set($SET, $label, invert); }
;

```

```

/*
setElement
: STRING_LITERAL
| TOKEN_REF
| ^(RANGE STRING_LITERAL STRING_LITERAL)
;
*/

```

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...

// TODO: same for NOT

```

atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(NOT a=atom[$label, true]) { $omos = $a.omos; }
| range[label] { $omos = $range.omos; }
| ^(DOT ID terminal[$label])
| ^(DOT ID ruleref[$label])
| ^(WILDCARD .) { $omos = controller.wildcard($WILDCARD, $label); }
| WILDCARD { $omos = controller.wildcard($WILDCARD, $label); }
| terminal[label] { $omos = $terminal.omos; }
| ruleref[label] { $omos = $ruleref.omos; }
| blockSet[$label, invert] { $omos = $blockSet.omos; }
;

```



```

ruleref[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RULE_REF ARG_ACTION? elementOptions?) {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
  ;

range[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  ;

terminal[GrammarAST label] returns [List<SrcOp> omos]
  : ^(STRING_LITERAL .) {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | STRING_LITERAL {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | ^(TOKEN_REF ARG_ACTION .) {$omos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
  | ^(TOKEN_REF .) {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  | TOKEN_REF {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  ;

elementOptions
  : ^(ELEMENT_OPTIONS elementOption+)
  ;

elementOption
  : ID
  | ^(ASSIGN ID ID)
  | ^(ASSIGN ID STRING_LITERAL)
  | ^(ASSIGN ID ACTION)
  | ^(ASSIGN ID INT)
  ;

```

Found in path(s):

```
* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-
jar/org/antlr/v4/codegen/SourceGenTriggers.g
```

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*/

/*

This file contains the actual layout of the messages emitted by ANTLR.

This file contains the default format ANTLR uses.

*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<id> <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):

* /opt/cola/permits/1192109359_1629132978.03/0/antlr4-4-7-2-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

1.575 get-stream 6.0.1

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1.576 node-libs-browser v2.2.1

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1.577 @webassemblyjs/helper-buffer 1.9.0

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1.578 jquery 2.1.1

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1.579 gson 2.8.9

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jar/com/google/gson/internal/bind/TreeTypeAdapter.java
```

* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/ConstructorConstructor.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/LazilyParsedNumber.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeWriter.java

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jar/com/google/gson/LongSerializationPolicy.java
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jar/com/google/gson/FieldAttributes.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonDeserializationContext.java
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```

Found in path(s):

```
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/JsonReader.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
```

jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/JsonWriter.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/reflect/PreJava9ReflectionAccessor.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/reflect/ReflectionAccessor.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/PreJava9DateFormatProvider.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/JavaVersion.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/ToNumberPolicy.java

* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/ToNumberStrategy.java

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Found in path(s):

* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/NumberTypeAdapter.java

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```
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-  
jar/com/google/gson/JsonSyntaxException.java  
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-  
jar/com/google/gson/internal/Streams.java
```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-  
jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java  
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-  
jar/com/google/gson/annotations/JsonAdapter.java
```

1.580 jest-resolve 23.6.0

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```

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```

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```

```
*
```

```
*
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1023315116_1594209773.93/0/jest-resolve-23-6-0-  
tgz/package/build/is_builtin_module.js
```

```
* /opt/ws_local/PERMITS_SQL/1023315116_1594209773.93/0/jest-resolve-23-6-0-tgz/package/build/index.js
```

```
* /opt/ws_local/PERMITS_SQL/1023315116_1594209773.93/0/jest-resolve-23-6-0-  
tgz/package/build/default_resolver.js
```

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```
*
```

```
* Adapted from: https://github.com/substack/node-resolve
```

```
*
```

```
*
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1023315116_1594209773.93/0/jest-resolve-23-6-0-  
tgz/package/build/node_modules_paths.js
```

1.581 asm-based-accessors-helper-used-by- json-smart 2.4.2

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1.582 apache-common-codec 1.15

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1.583 @webassemblyjs/helper-module-context 1.9.0

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1.584 httpcore-nio 4.4.13

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1.600 chownr 1.1.4

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1.601 jackson-core 2.11.4

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1.602 awsjavasdkc 1.11.91

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/**

* <p>
* Describes the ID format settings for your resources on a per-region basis, for example, to view which resource
* types are enabled for longer IDs. This request only returns information about resource types whose ID formats
can
* be modified; it does not return information about other resource types.

```

* </p>
* <p>
* The following resource types support longer IDs: <code>instance</code> | <code>reservation</code> |
* <code>snapshot</code> | <code>volume</code>.
* </p>
* <p>
* These settings apply to the IAM user who makes the request; they do not apply to the entire AWS account. By
* default, an IAM user defaults to the same settings as the root user, unless they explicitly override the settings
* by running the <a>ModifyIdFormat</a> command. Resources created with longer IDs are visible to all IAM
users,
* regardless of these settings and provided that they have permission to use the relevant <code>Describe</code>
* command for the resource type.
* </p>
*
* @param describeIdFormatRequest
*     Contains the parameters for DescribeIdFormat.
* @return Result of the DescribeIdFormat operation returned by the service.
* @sample AmazonEC2.DescribeIdFormat
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/DescribeIdFormat"
target="_top">AWS API
*     Documentation</a>
*/
/**
* <p>
* Modifies the ID format for the specified resource on a per-region basis. You can specify that resources should
* receive longer IDs (17-character IDs) when they are created. The following resource types support longer IDs:
* <code>instance</code> | <code>reservation</code> | <code>snapshot</code> | <code>volume</code>.
* </p>
* <p>
* This setting applies to the IAM user who makes the request; it does not apply to the entire AWS account. By
* default, an IAM user defaults to the same settings as the root user. If you're using this action as the root
* user, then these settings apply to the entire account, unless an IAM user explicitly overrides these settings for
* themselves. For more information, see <a
* href="http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/resource-ids.html">Resource IDs</a> in the
<i>Amazon
* Elastic Compute Cloud User Guide</i>.
* </p>
* <p>
* Resources created with longer IDs are visible to all IAM roles and users, regardless of these settings and
* provided that they have permission to use the relevant <code>Describe</code> command for the resource type.
* </p>
*
* @param modifyIdFormatRequest
*     Contains the parameters of ModifyIdFormat.
* @return Result of the ModifyIdFormat operation returned by the service.
* @sample AmazonEC2.ModifyIdFormat
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/ModifyIdFormat"
target="_top">AWS API

```

* Documentation

*/

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* /opt/cola/permits/1135901978_1613627760.14/0/aws-java-sdk-ec2-1-11-91-sources-1-jar/com/amazonaws/services/ec2/AmazonEC2.java

* /opt/cola/permits/1135901978_1613627760.14/0/aws-java-sdk-ec2-1-11-91-sources-1-jar/com/amazonaws/services/ec2/AmazonEC2Client.java

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/**

* <p>

* Describes the ID format settings for your resources on a per-region basis, for example, to view which resource types are enabled for longer IDs. This request only returns information about resource types whose ID formats can

* be modified; it does not return information about other resource types.

* </p>

* <p>

* The following resource types support longer IDs: <code>instance</code> | <code>reservation</code> | <code>snapshot</code> | <code>volume</code>.

* </p>

* <p>

* These settings apply to the IAM user who makes the request; they do not apply to the entire AWS account. By default, an IAM user defaults to the same settings as the root user, unless they explicitly override the settings by running the <a>ModifyIdFormat command. Resources created with longer IDs are visible to all IAM users,

* regardless of these settings and provided that they have permission to use the relevant <code>Describe</code> command for the resource type.

* </p>

*

* @param describeIdFormatRequest

* Contains the parameters for DescribeIdFormat.

* @return A Java Future containing the result of the DescribeIdFormat operation returned by the service.


```

* @sample AmazonEC2Async.DescribeIdFormat
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/DescribeIdFormat"
target="_top">AWS API
*   Documentation</a>
*/
/**
* <p>
* Modifies the ID format for the specified resource on a per-region basis. You can specify that resources should
* receive longer IDs (17-character IDs) when they are created. The following resource types support longer IDs:
* <code>instance</code> | <code>reservation</code> | <code>snapshot</code> | <code>volume</code>.
* </p>
* <p>
* This setting applies to the IAM user who makes the request; it does not apply to the entire AWS account. By
* default, an IAM user defaults to the same settings as the root user. If you're using this action as the root
* user, then these settings apply to the entire account, unless an IAM user explicitly overrides these settings for
* themselves. For more information, see <a
* href="http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/resource-ids.html">Resource IDs</a> in the
<i>Amazon
* Elastic Compute Cloud User Guide</i>.
* </p>
* <p>
* Resources created with longer IDs are visible to all IAM roles and users, regardless of these settings and
* provided that they have permission to use the relevant <code>Describe</code> command for the resource type.
* </p>
*
* @param modifyIdFormatRequest
*   Contains the parameters of ModifyIdFormat.
* @return A Java Future containing the result of the ModifyIdFormat operation returned by the service.
* @sample AmazonEC2Async.ModifyIdFormat
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/ModifyIdFormat"
target="_top">AWS API
*   Documentation</a>
*/

```

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```

* /opt/cola/permits/1135901978_1613627760.14/0/aws-java-sdk-ec2-1-11-91-sources-1-
jar/com/amazonaws/services/ec2/AmazonEC2Async.java

```

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* /opt/cola/permits/1135901978_1613627760.14/0/aws-java-sdk-ec2-1-11-91-sources-1-jar/com/amazonaws/services/ec2/model/transform/EC2RequestHandler.java
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* /opt/cola/permits/1135901978_1613627760.14/0/aws-java-sdk-ec2-1-11-91-sources-1-jar/com/amazonaws/services/ec2/util/SecurityGroupUtils.java

1.603 system-servicemodel-security 4.0.0.0

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Martin Richards
23 February 2007

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John R. Hauser
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  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
  <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
  <IlrtTestKind>BuildOnly</IlrtTestKind>
  <!-- Test unsupported outside of windows -->
  <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
  <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
  <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
  <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
```

```

</PropertyGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
  <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
  <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
</ItemGroup>
<ItemGroup>
  <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>

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Use:

<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738>

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</pre>  
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| | GL/gltext.h | Khronos |
| | GL/wgltext.h | Khronos |
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include/GL/gl.h :

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```
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include/GL/glxt.h
include/GL/wglxt.h :
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Little Color Management System (LCMS) v2.12

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<pre>

Little Color Management System

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## ASM Bytecode Manipulation Framework v6.0
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The Unicode Standard, Unicode Character Database, Version 10.0.0

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## xwd v1.0.7
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### xwd utility
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* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ForwardingSource.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/RealBufferedSource.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Timeout.java
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* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ForwardingSink.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/GzipSource.java

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1.610 bean-validation-api 2.0.1.Final

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<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
```

```
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">
```

```
<!-- Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See
the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF
licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file
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http://www.apache.org/licenses/LICENSE-2.0 . Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing
permissions and limitations under the License. -->
```

```
</head>
```

```
<body>
```

```
<!-- Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
</button>
```

```
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
```

```
</div>
```

```
<div class="collapse navbar-collapse" id="mainnav-collapse">
```

```
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>
```

```
<ul class="nav navbar-nav navbar-right">
```

```
<li class="dropdown">
```

```
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
```

```
<ul class="dropdown-menu" role="menu">
```

```
<li><a href="/foundation">Overview</a></li>
```

```
<li><a href="/foundation/members.html">Members</a></li>
```

```
<li><a href="/foundation/how-it-works.html">Process</a></li>
```

```
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
```

```
<li><a href="/foundation/glossary.html">Glossary</a></li>
```

```
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
```

```
<li><a href="/foundation/contact.html ">Contact</a></li>
```

```
</ul>
```

```
</li>
```

```
<li><a href="/index.html#projects-list">Projects</a></li>
```

```
<li class="dropdown">
```



```

    <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
    </ul>
</li>
<li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
<li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
<li><a href="http://www.apachecon.com/">ApacheCon</a></li>
    </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
</li>
</ul>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
    <div class="col-md-6 col-sm-5 col-xs-12">
    
</div>
<div class="col-md-3 col-sm-3 col-xs-6">
<a href="http://apache.org/foundation/contributing.html" title="Support Apache">
    
</a>
</div>
<div class="col-md-3 col-sm-4 col-xs-6">

```

```

<div class="input-group" style="margin-bottom: 5px;">
<script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
<gcse:searchbox-only></gcse:searchbox-only>
</div>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
<a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty
percent (50%) or more of the outstanding shares, or (iii) beneficial

```

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```
<div class="codehilite"><pre>Copyright [yyyy] [name of copyright owner]
```

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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
```

```
<li><a href="/memorials/">Memorials</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
```

```
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
```

```
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright © 2017 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

1.614 types-istanbul-lib-coverage 2.0.3

1.614.1 Available under license :

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1.615 ecc-jsbn 0.1.2

1.616 etag 1.8.1

1.617 jsch 0.1.54

1.617.1 Available under license :

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1.618 postcss-merge-idents 2.1.7

1.618.1 Available under license :

MIT

1.619 checker-qual 3.1.0

1.619.1 Available under license :

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1.620 jackson-module-afterburner 2.13.2

1.620.1 Available under license :

Jackson JSON processor

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ASM

ASM: a very small and fast Java bytecode manipulation framework

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1.621 @babel/plugin-syntax-jsx 7.18.6

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1.622 activemq-client 5.16.1

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1.623 dot-case 3.0.4

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1.624 @babel/helper-hoist-variables 7.15.4

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1.625 checker-compatible-qual 2.5.5

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* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/ByteString.kt
* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/internal/-
Utf8.kt

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jar/commonMain/okio/HashingSink.kt

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jar/jvmMain/okio/NioSystemFileSystem.kt

* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/Path.kt

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jar/jvmMain/okio/JvmSystemFileSystem.kt

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jar/commonMain/okio/ExperimentalFileSystem.kt

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jar/commonMain/okio/HashingSource.kt

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* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/Path.kt

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* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/internal/zip.kt
* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/ZipFileSystem.kt

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* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-
jar/jvmMain/okio/internal/FixedLengthSource.kt
* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/FileHandle.kt
* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/JvmFileHandle.kt
* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/internal/-
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1.628 commons-el 2.0

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- * /opt/cola/permits/1538586591_1681866262.9520338/0/commons-el-1-0-src-jar-1-zip/commons-el-1-0-src-jar/org/apache/commons/el/ModulusOperator.java
- * /opt/cola/permits/1538586591_1681866262.9520338/0/commons-el-1-0-src-jar-1-zip/commons-el-1-0-src-jar/org/apache/commons/el/BinaryOperator.java
- * /opt/cola/permits/1538586591_1681866262.9520338/0/commons-el-1-0-src-jar-1-zip/commons-el-1-0-src-jar/org/apache/commons/el/MultiplyOperator.java
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- * /opt/cola/permits/1538586591_1681866262.9520338/0/commons-el-1-0-src-jar-1-zip/commons-el-1-0-src-jar/org/apache/commons/el/PrimitiveObjects.java
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- * /opt/cola/permits/1538586591_1681866262.9520338/0/commons-el-1-0-src-jar-1-zip/commons-el-1-0-src-jar/org/apache/commons/el/EnumeratedMap.java
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* /opt/cola/permits/1538586591_1681866262.9520338/0/commons-el-1-0-src-jar-1-zip/commons-el-1-0-src-jar/org/apache/commons/el/PlusOperator.java

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1.629 jest-reporters 25.5.1

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1.640 parent-module 1.0.1

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1.641 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

1.642 is-posix-bracket 0.1.1

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1.643 metrics-core 3.0.2

1.644 watchman 2.1.1

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1.645 @types/normalize-package-data 2.4.1

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1.647 postcss-modules-values 1.3.0

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1.648 is-path-inside v2.1.0

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1.649 concat 1.0.3

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1.650 raw-body 2.4.0

1.651 node-html-entities 1.4.0

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1.652 jsprim 1.4.1

1.653 apache-commons-text 1.2

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1.654 jackson-annotations 2.13.4

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1.660 escodegen v1.14.3

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1.665 libsigar 1.6.5

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1.666 cglib 2.2

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```
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jar/net/sf/cglib/transform/ClassTransformerFactory.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BulkBeanException.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastMember.java
```

- * /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassReaderGenerator.java
- * /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassTransformer.java
- * /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastConstructor.java
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- * /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/AnnotationVisitorTee.java
- * /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MixinBeanEmitter.java
- * /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/ClassesKey.java
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/beans/FixedKeySet.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/DuplicatesPredicate.java
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-
jar/net/sf/cglib/transform/AbstractClassTransformer.java
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/UndeclaredThrowableException.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MethodInterceptor.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/Factory.java

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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MethodProxy.java
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/AbstractClassGenerator.java
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/ReflectUtils.java

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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-

jar/net/sf/cglib/transform/AbstractClassFilterTransformer.java

* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-

jar/net/sf/cglib/transform/impl/AbstractInterceptFieldCallback.java

* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-

jar/net/sf/cglib/transform/impl/AddInitTransformer.java

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jar/net/sf/cglib/core/MethodInfoTransformer.java

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jar/net/sf/cglib/core/RejectModifierPredicate.java

* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-

jar/net/sf/cglib/proxy/MixinEverythingEmitter.java

* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/InterfaceMaker.java

* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/CallbackHelper.java

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1.667 is-word-character 1.0.4

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1.668 dropwizard-util 2.0.29

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1.669 anymatch 3.1.2

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1.670 toml4j 0.7.1

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<developers>
  <developer>
    <id>moandji.ezana</id>
    <name>Moandji Ezana</name>
    <email>mwanji@gmail.com</email>
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      <groupId>org.sonatype.plugins</groupId>
      <artifactId>nexus-staging-maven-plugin</artifactId>
      <version>1.6.7</version>
      <extensions>true</extensions>
      <configuration>
        <serverId>ossrh</serverId>
        <nexusUrl>https://oss.sonatype.org/</nexusUrl>
        <autoReleaseAfterClose>true</autoReleaseAfterClose>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-release-plugin</artifactId>
      <version>2.5.3</version>

```

```

<configuration>
  <autoVersionSubmodules>true</autoVersionSubmodules>
  <useReleaseProfile>>false</useReleaseProfile>
  <releaseProfiles>release</releaseProfiles>
  <goals>deploy</goals>
</configuration>
</plugin>
</plugins>
</build>
<profiles>
<profile>
  <id>release</id>
  <build>
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        <artifactId>maven-gpg-plugin</artifactId>
        <version>1.6</version>
        <executions>
          <execution>
            <id>sign-artifacts</id>
            <phase>verify</phase>
            <goals>
              <goal>sign</goal>
            </goals>
          </execution>
        </executions>
      </plugin>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-source-plugin</artifactId>
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        <executions>
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            <id>attach-sources</id>
            <goals>
              <goal>jar-no-fork</goal>
            </goals>
          </execution>
        </executions>
      </plugin>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-javadoc-plugin</artifactId>
        <version>2.10.4</version>
        <executions>
          <execution>
            <id>attach-javadocs</id>

```

```
<goals>
  <goal>jar</goal>
</goals>
</execution>
</executions>
</plugin>
</plugins>
</build>
</profile>
</profiles>
</project>
```

Found in path(s):

```
* /opt/cola/permits/1288263124_1647314638.29/0/toml4j-0-7-1-jar/META-
INF/maven/com.moandjiezana.toml/toml4j/pom.xml
```

1.671 nlog.windowssidentity 4.0

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- 1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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1.674 log4j-jcl 2.17.1

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1.675 babel-generator 6.26.1

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```
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jar/feign/jackson/JacksonDecoder.java
*/opt/ws_local/PERMITS_SQL/1041687872_1590954410.55/0/feign-jackson-8-15-1-sources-
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 jar/com/sun/jersey/multipart/MultiPartMediaTypes.java
 * /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
 jar/com/sun/jersey/multipart/file/StreamDataBodyPart.java
 * /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
 jar/com/sun/jersey/multipart/Boundary.java
 * /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
 jar/com/sun/jersey/multipart/package-info.java
 * /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
 jar/com/sun/jersey/multipart/FormDataParam.java
 * /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-

jar/com/sun/jersey/multipart/MultiPart.java
* /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
jar/com/sun/jersey/multipart/file/MediaTypePredictor.java
* /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
jar/com/sun/jersey/multipart/ParameterizedHeadersMap.java
* /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
jar/com/sun/jersey/multipart/file/package-info.java
* /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
jar/com/sun/jersey/multipart/FormDataMultiPart.java
* /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
jar/com/sun/jersey/multipart/BodyPartEntity.java
* /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
jar/com/sun/jersey/multipart/HeadersMap.java
* /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
jar/com/sun/jersey/multipart/file/DefaultMediaTypePredictor.java
* /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
jar/com/sun/jersey/multipart/impl/MultiPartReaderServerSide.java
* /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
jar/com/sun/jersey/multipart/file/FileDataBodyPart.java
* /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
jar/com/sun/jersey/multipart/impl/FormDataMultiPartDispatchProvider.java
* /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
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jar/com/sun/jersey/multipart/FormDataBodyPart.java
* /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
jar/com/sun/jersey/multipart/BodyPart.java

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jar/com/sun/jersey/multipart/MultiPartConfig.java

* /opt/cola/permits/1004926444_1654022910.04326/0/jersey-multipart-1-19-4-sources-
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1.681 jsr305 3.0.2

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```
* /opt/cola/permits/1334730768_1653653249.5131547/0/jsr305-3-0-2-sources-8-  
jar/javax/annotation/concurrent/GuardedBy.java  
* /opt/cola/permits/1334730768_1653653249.5131547/0/jsr305-3-0-2-sources-8-  
jar/javax/annotation/concurrent/NotThreadSafe.java  
* /opt/cola/permits/1334730768_1653653249.5131547/0/jsr305-3-0-2-sources-8-  
jar/javax/annotation/concurrent/Immutable.java  
* /opt/cola/permits/1334730768_1653653249.5131547/0/jsr305-3-0-2-sources-8-  
jar/javax/annotation/concurrent/ThreadSafe.java
```

1.682 json-smart 2.3

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```
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParserMemory.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/JsonReaderI.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParserBase.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/JsonReader.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONUtil.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParserString.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONArray.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParserInputStream.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/JSONStreamAware.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParser.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/ParseException.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/DefaultMapperOrdered.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/FakeMapper.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/CompressorMapper.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JStylerObj.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
```

```
jar/net/minidev/json/writer/BeansMapper.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONNavi.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONObject.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/JSONAwareEx.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONAware.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/DefaultMapperCollection.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParserReader.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONStyle.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/JSONStreamAwareEx.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParserStream.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONValue.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParserByteArray.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/ArraysMapper.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/CollectionMapper.java
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```
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/DefaultMapper.java
```

1.683 @babel/preset-react 7.18.6

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1.684 feign-core 10.7.4

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jar/feign/stream/StreamDecoder.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Logger.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Util.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-
jar/feign/codec/StringDecoder.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Client.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-
jar/feign/template/Expression.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Response.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-
jar/feign/FeignException.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/QueryMap.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Request.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-
jar/feign/template/UriUtils.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-
jar/feign/template/QueryTemplate.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-
jar/feign/RequestTemplate.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Contract.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Feign.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-
jar/feign/CollectionFormat.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-
jar/feign/template/BodyTemplate.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Types.java

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* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/template/Literal.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/template/Expressions.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/SynchronousMethodHandler.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/querymap/BeanQueryMapEncoder.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Body.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/codec/Encoder.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/codec/DecodeException.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/RequestInterceptor.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/template/UriTemplate.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/codec/ErrorDecoder.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/ResponseMapper.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/ExceptionPropagationPolicy.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/template/Template.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/RetryableException.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/codec/Decoder.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/codec/EncodeException.java

* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/InvocationHandlerFactory.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/RequestLine.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/template/HeaderTemplate.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/auth/Base64.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/HeaderMap.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Headers.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/optionals/OptionalDecoder.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/MethodMetadata.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/querymap/FieldQueryMapEncoder.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/DefaultMethodHandler.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Target.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Experimental.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Retryer.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/auth/BasicAuthRequestInterceptor.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/DeclarativeContract.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/template/TemplateChunk.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/QueryMapEncoder.java
* /opt/ws_local/PERMITS_SQL/1046144890_1589880128.54/0/feign-core-10-7-4-sources-jar/feign/Param.java

1.685 shindig-server 2.0.2

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1.690 public-encrypt v4.0.3

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1.691 angular-ui-router 0.2.15

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1.692 activemq-broker 5.16.1

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1.693 hk2-utils 2.6.1

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1.694 buffer v4.9.2

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1.695 metrics-jmx 4.1.31

1.695.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jmx
Build-Jdk-Spec: 1.8
Bundle-Description: A set of classes which allow you to report metrics via JMX.
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration with JMX
Bundle-SymbolicName: io.dropwizard.metrics.jmx
Bundle-Version: 4.1.31
Created-By: Apache Maven Bundle Plugin 5.1.4
Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics,javax.management";version="4.1.31"
Implementation-Title: Metrics Integration with JMX
Implementation-Version: 4.1.31
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics;version="[4.1,5)",javax.management
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1302235718_1649326543.63/0/metrics-jmx-4-1-31-jar/META-INF/MANIFEST.MF

1.696 annotations 4.1.1.4

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 */
```

Found in path(s):

```
* /opt/cola/permits/1258811491_1643111603.33/0/annotations-4-1-1-4-sources-
jar/android/annotation/SuppressLint.java
* /opt/cola/permits/1258811491_1643111603.33/0/annotations-4-1-1-4-sources-
jar/android/annotation/TargetApi.java
```

1.697 log4j-jcl 2.19.0

1.697.1 Available under license :

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1.698 json-3 3.3.3

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1.699 postcss-modules-local-by-default 1.2.0

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1.700 @babel/preset-env 7.20.2

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1.701 metrics-jvm 4.1.31

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.jvm

Build-Jdk-Spec: 1.8

Bundle-Description: A set of classes which allow you to monitor critical aspects of your Java Virtual Machine using Metrics.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: JVM Integration for Metrics

Bundle-SymbolicName: io.dropwizard.metrics.jvm

Bundle-Version: 4.1.31

Created-By: Apache Maven Bundle Plugin 5.1.4
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,javax.management";version="4.1.31"
Implementation-Title: JVM Integration for Metrics
Implementation-Version: 4.1.31
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.sun.management;resolution:=optional,com.codahale.metrics;version="[4.1,5)",javax.management
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1317858426_1651160245.48/0/metrics-jvm-4-1-31-jar/META-INF/MANIFEST.MF

1.702 spd-expression-parse 3.0.1

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1.703 metrics-health-checks 4.1.31

1.703.1 Available under license :

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.health
Build-Jdk-Spec: 1.8
Bundle-Description: An addition to Metrics which provides the ability to run application-specific health checks, allowing you to check your application's health in production.
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Health Checks
Bundle-SymbolicName: io.dropwizard.metrics.healthchecks
Bundle-Version: 4.1.31
Created-By: Apache Maven Bundle Plugin 5.1.4
Export-Package: com.codahale.metrics.health;uses:="com.codahale.metrics";version="4.1.31",com.codahale.metrics.health.jvm;uses:="com.codahale.metrics.health,com.codahale.metrics.jvm";version="4.1.31",com.codahale.metrics.health.annotation;version="4.1.31"
Implementation-Title: Metrics Health Checks
Implementation-Version: 4.1.31
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics;version="[4.1,5)",com.codahale.metrics.health,com.codahale.metrics.health.annotation,com.codahale.metrics.jvm;version="[4.1,5)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1304518989_1649672861.67/0/metrics-healthchecks-4-1-31-jar/META-INF/MANIFEST.MF

1.704 chai 4.2.0

1.704.1 Available under license :

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1.705 checker-qual 3.5.0

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1.706 kleur 3.0.3

1.706.1 Available under license :

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1.707 strip-json-comments 3.1.1

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1.708 ci-info 2.0.0

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1.709 jetty-plus 9.4.26.v20200117

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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.710 lodash.camelcase 4.3.0

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1.711 serve-index 1.9.1

1.712 node-bindings 1.5.0

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1.713 serve-static v1.14.1

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1.714 tomcat-websocket 9.0.69

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1.715 xml-commons-resolver 1.2

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1.717 slf4j-jdk14 1.5.6

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 * /opt/ws_local/PERMITS_SQL/1045561765_1594164735.58/0/slf4j-jdk14-1-5-6-sources-1-jar/org/slf4j/impl/JDK14LoggerAdapter.java
 * /opt/ws_local/PERMITS_SQL/1045561765_1594164735.58/0/slf4j-jdk14-1-5-6-sources-1-jar/org/slf4j/impl/StaticMarkerBinder.java

1.718 reflections 0.9.11

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1.719 guava-internalfuturefailureaccess-and-internalfutures 1.0.1

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1.720 javax-annotation-api 1.3.2

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1.721 faye-websocket-node 0.11.4

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1.722 from2 2.3.0

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1.723 eslint 7.32.0

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1.724 filename-regexp 2.0.1

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1.725 jdom 1.0

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\$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp \$

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Comment.java

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\$Id: BuilderErrorHandler.java,v 1.12 2004/02/06 09:28:31 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/BuilderErrorHandler.java

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/*--

\$Id: JDOMParseException.java,v 1.7 2004/02/17 02:29:24 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/JDOMParseException.java

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\$Id: JDOMResult.java,v 1.23 2004/08/31 06:10:38 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/transform/JDOMResult.java

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/*--

\$Id: IllegalAddException.java,v 1.25 2004/02/06 09:28:30 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/IllegalAddException.java

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\$Id: Parent.java,v 1.12 2004/08/31 21:47:51 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Parent.java

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/*--

\$Id: DefaultJDOMFactory.java,v 1.6 2004/09/01 05:25:38 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/DefaultJDOMFactory.java

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\$Id: Content.java,v 1.5 2004/09/07 06:37:20 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Content.java

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/*--

\$Id: XercesDOMAdapter.java,v 1.18 2004/02/06 09:28:31 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/adapters/XercesDOMAdapter.java

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\$Id: AbstractDOMAdapter.java,v 1.20 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: Namespace.java,v 1.41 2004/02/27 11:32:57 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Namespace.java

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\$Id: AbstractFilter.java,v 1.5 2004/02/27 11:32:58 jhunter Exp \$

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\$Id: NegateFilter.java,v 1.3 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: EscapeStrategy.java,v 1.3 2004/02/06 09:28:32 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/output/EscapeStrategy.java

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/*--

\$Id: XSLTransformException.java,v 1.3 2004/02/06 09:28:32 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/transform/XSLTransformException.java

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\$Id: JAXPDOMAdapter.java,v 1.12 2004/02/06 09:28:31 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/adapters/JAXPDOMAdapter.java
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\$Id: Verifier.java,v 1.51 2004/08/31 21:58:55 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Verifier.java

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\$Id: AndFilter.java,v 1.3 2004/02/06 09:28:31 jhunter Exp \$

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Found in path(s):

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\$Id: Text.java,v 1.24 2004/02/27 11:32:57 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Text.java

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\$Id: JDOMLocator.java,v 1.3 2004/02/06 09:28:32 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/output/JDOMLocator.java
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\$Id: DOMBuilder.java,v 1.59 2004/09/03 06:03:41 jhunter Exp \$

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\$Id: Document.java,v 1.84 2004/08/31 21:47:51 jhunter Exp \$

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\$Id: DescendantIterator.java,v 1.5 2004/02/27 11:32:57 jhunter Exp \$

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\$Id: ElementFilter.java,v 1.18 2004/09/07 06:37:20 jhunter Exp \$

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\$Id: JDOMException.java,v 1.23 2004/02/27 11:32:57 jhunter Exp \$

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\$Id: SAXOutputter.java,v 1.37 2004/09/03 06:11:00 jhunter Exp \$

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/output/SAXOutputter.java

No license file was found, but licenses were detected in source scan.

/*--

\$Id: SAXHandler.java,v 1.68 2004/08/31 06:14:05 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/SAXHandler.java
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/*--

\$Id: OracleV2DOMAdapter.java,v 1.18 2004/02/06 09:28:31 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/adapters/OracleV2DOMAdapter.java

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\$Id: CDATA.java,v 1.30 2004/02/27 11:32:57 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/CDATA.java

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/*--

\$Id: ProcessingInstruction.java,v 1.46 2004/02/27 11:32:57 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/ProcessingInstruction.java

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\$Id: XMLOutputter.java,v 1.112 2004/09/01 06:08:18 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/output/XMLOutputter.java

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/*--

\$Id: CrimsonDOMAdapter.java,v 1.16 2004/02/06 09:28:31 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/adapters/CrimsonDOMAdapter.java

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\$Id: TextBuffer.java,v 1.8 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: DOMOutputter.java,v 1.41 2004/09/03 06:03:42 jhunter Exp \$

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\$Id: OrFilter.java,v 1.4 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: DocType.java,v 1.31 2004/02/27 11:32:57 jhunter Exp \$

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\$Id: IllegalTargetException.java,v 1.14 2004/02/06 09:28:30 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/IllegalTargetException.java
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/*--

\$Id: JAXPParserFactory.java,v 1.5 2004/02/27 21:08:47 jhunter Exp \$

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Found in path(s):

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\$Id: Filter.java,v 1.9 2004/02/06 09:28:31 jhunter Exp \$

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Found in path(s):

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Attribute.java

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\$Id: XSLTransformer.java,v 1.2 2004/02/06 09:28:32 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/transform/XSLTransformer.java
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\$Id: NamespaceStack.java,v 1.13 2004/02/06 09:28:32 jhunter Exp \$

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/output/NamespaceStack.java
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\$Id: JDOMFactory.java,v 1.8 2004/09/01 05:25:38 jhunter Exp \$

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Found in path(s):

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\$Id: AttributeList.java,v 1.23 2004/02/28 03:30:27 jhunter Exp \$

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\$Id: ContentFilter.java,v 1.14 2004/08/31 04:56:07 jhunter Exp \$

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\$Id: Element.java,v 1.152 2004/09/03 06:35:39 jhunter Exp \$

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\$Id: FilterIterator.java,v 1.5 2004/08/31 19:36:12 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/FilterIterator.java
No license file was found, but licenses were detected in source scan.

/*--

\$Id: XML4JDOMAdapter.java,v 1.17 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: OracleV1DOMAdapter.java,v 1.19 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: DataConversionException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp \$

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\$Id: Format.java,v 1.10 2004/09/07 06:37:20 jhunter Exp \$

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\$Id: EntityRef.java,v 1.21 2004/02/27 11:32:57 jhunter Exp \$

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\$Id: XPath.java,v 1.15 2004/02/06 09:28:32 jhunter Exp \$

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\$Id: JDOMSource.java,v 1.18 2004/08/31 04:43:48 jhunter Exp \$

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\$Id: DOMAdapter.java,v 1.21 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: SAXBuilder.java,v 1.89 2004/09/03 18:24:28 jhunter Exp \$

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1.726 error_prone_annotations 2.10.0

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* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/CompatibleWith.java
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* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/InlineMe.java
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* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java

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* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
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Found in path(s):

* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-

jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/ForOverride.java

1.727 unist-util-visit-parents 2.1.2

1.727.1 Available under license :

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1.728 ecj 3.26.0

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* Contributors:
*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contribution for
*     bug 384380 - False positive on a "Potential null pointer access" after a continue
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*****/
```

Found in path(s):

```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/InvocationSite.java
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*
* Contributors:
*   wharley@bea.com - derived base class from BatchMessengerImpl
*
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BaseMessengerImpl.java
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Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ReductionResult.java

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* Stephan Herrmann - initial API and implementation
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionInferenceFlowContext.java

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/classfmt/ComponentInfoWithTypeAnnotation.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/messages.properties
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/antadapter/messages.properties
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/batch/messages.properties
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/problem/messages.properties
```

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* Contributors:
* wharley@bea.com - initial API and implementation
* IBM Corporation - fix for 342470
* IBM Corporation - fix for 342598
* IBM Corporation - Java 8 support
*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/model/TypeParameterElementImpl.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/RequiresStatement.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrame.java
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 *   Stephan Herrmann - Contribution for
 *     Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
 *     Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
 *****/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:
    @T Z;                type => Z annotations => [[@T]]
    @T Y.@T Z           type => Z annotations => [[@T][@T]]
    @T X.@T Y.@T Z     type => Z annotations => [[@T][@T][@T]]
    java.lang.@T X.@T Y.@T Z     type => Z annotations => [[]][@T][@T][@T]]
    in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
    layout for proper attribution.
 */
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/AnnotatableTypeSystem.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ReadManager.java

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* Stephan Herrmann - Contribution for bug 295551

* Jesper S Moller - Contributions for

* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

* Frits Jalvingh - contributions for bug 533830.

* Red Hat Inc. - add module-info Javadoc support

*/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CompilationUnitDeclaration.java

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*   IBM Corporation - initial API and implementation
*   IBM Corporation - added the following constants
*     NonStaticAccessToStaticField
*     NonStaticAccessToStaticMethod
*     Task
*     ExpressionShouldBeAVariable
*     AssignmentHasNoEffect
*   IBM Corporation - added the following constants
*     TooManySyntheticArgumentSlots
*     TooManyArrayDimensions
*     TooManyBytesForStringConstant
*     TooManyMethods
*     TooManyFields
*     NonBlankFinalLocalAssignment
*     ObjectCannotHaveSuperTypes
*     MissingSemiColon
*     InvalidParenthesizedExpression
*     EnclosingInstanceInConstructorCall
*     BytecodeExceeds64KLimitForConstructor
*     IncompatibleReturnTypeForNonInheritedInterfaceMethod
*     UnusedPrivateMethod
*     UnusedPrivateConstructor
*     UnusedPrivateType
*     UnusedPrivateField
*     IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
*     InvalidExplicitConstructorCall
*   IBM Corporation - added the following constants
*     PossibleAccidentalBooleanAssignment
*     SuperfluousSemicolon
*     IndirectAccessToStaticField
*     IndirectAccessToStaticMethod
*     IndirectAccessToStaticType
*     BooleanMethodThrowingException
*     UnnecessaryCast
*     UnnecessaryArgumentCast
*/
```


- * UnnecessaryInstanceof
- * FinallyMustCompleteNormally
- * UnusedMethodDeclaredThrownException
- * UnusedConstructorDeclaredThrownException
- * InvalidCatchBlockSequence
- * UnqualifiedFieldAccess
- * IBM Corporation - added the following constants
- * Javadoc
- * JavadocUnexpectedTag
- * JavadocMissingParamTag
- * JavadocMissingParamName
- * JavadocDuplicateParamName
- * JavadocInvalidParamName
- * JavadocMissingReturnTag
- * JavadocDuplicateReturnTag
- * JavadocMissingThrowsTag
- * JavadocMissingThrowsClassName
- * JavadocInvalidThrowsClass
- * JavadocDuplicateThrowsClassName
- * JavadocInvalidThrowsClassName
- * JavadocMissingSeeReference
- * JavadocInvalidSeeReference
- * JavadocInvalidSeeHref
- * JavadocInvalidSeeArgs
- * JavadocMissing
- * JavadocInvalidTag
- * JavadocMessagePrefix
- * EmptyControlFlowStatement
- * IBM Corporation - added the following constants
- * IllegalUsageOfQualifiedTypeReference
- * InvalidDigit
- * IBM Corporation - added the following constants
- * ParameterAssignment
- * FallthroughCase
- * IBM Corporation - added the following constants
- * UnusedLabel
- * UnnecessaryNLSTag
- * LocalVariableMayBeNull
- * EnumConstantsCannotBeSurroundedByParenthesis
- * JavadocMissingIdentifier
- * JavadocNonStaticTypeFromStaticInvocation
- * RawTypeReference
- * NoAdditionalBoundAfterTypeVariable
- * UnsafeGenericArrayForVarargs
- * IllegalAccessFromTypeVariable
- * AnnotationValueMustBeArrayInitializer
- * InvalidEncoding
- * CannotReadSource

- * EnumStaticFieldInInInitializerContext
- * ExternalProblemNotFixable
- * ExternalProblemFixable
- * IBM Corporation - added the following constants
- * AnnotationValueMustBeAnEnumConstant
- * OverridingMethodWithoutSuperInvocation
- * MethodMustOverrideOrImplement
- * TypeHidingTypeParameterFromType
- * TypeHidingTypeParameterFromMethod
- * TypeHidingType
- * IBM Corporation - added the following constants
- * NullLocalVariableReference
- * PotentialNullLocalVariableReference
- * RedundantNullCheckOnNullLocalVariable
- * NullLocalVariableComparisonYieldsFalse
- * RedundantLocalVariableNullAssignment
- * NullLocalVariableInstanceofYieldsFalse
- * RedundantNullCheckOnNonNullLocalVariable
- * NonNullLocalVariableComparisonYieldsFalse
- * IBM Corporation - added the following constants
- * InvalidUsageOfTypeParametersForAnnotationDeclaration
- * InvalidUsageOfTypeParametersForEnumDeclaration
- * IBM Corporation - added the following constants
- * RedundantSuperinterface
- * Benjamin Muskalla - added the following constants
- * MissingSynchronizedModifierInInheritedMethod
- * Stephan Herrmann - added the following constants
- * UnusedObjectAllocation
- * PotentiallyUnclosedCloseable
- * PotentiallyUnclosedCloseableAtExit
- * UnclosedCloseable
- * UnclosedCloseableAtExit
- * ExplicitlyClosedAutoCloseable
- * RequiredNonNullButProvidedNull
- * RequiredNonNullButProvidedPotentialNull
- * RequiredNonNullButProvidedUnknown
- * NullAnnotationNameMustBeQualified
- * IllegalReturnNullityRedefinition
- * IllegalRedefinitionToNonNullParameter
- * IllegalDefinitionToNonNullParameter
- * ParameterLackingNonNullAnnotation
- * ParameterLackingNullableAnnotation
- * PotentialNullMessageSendReference
- * RedundantNullCheckOnNonNullMessageSend
- * CannotImplementIncompatibleNullness
- * RedundantNullAnnotation
- * RedundantNullDefaultAnnotation
- * RedundantNullDefaultAnnotationPackage

- * RedundantNullDefaultAnnotationType
- * RedundantNullDefaultAnnotationMethod
- * ContradictoryNullAnnotations
- * IllegalAnnotationForBaseType
- * RedundantNullCheckOnSpecdNonNullLocalVariable
- * SpecdNonNullLocalVariableComparisonYieldsFalse
- * RequiredNonNullButProvidedSpecdNullable
- * MissingDefaultCase
- * MissingEnumConstantCaseDespiteDefault
- * UninitializedLocalVariableHintMissingDefault
- * UninitializedBlankFinalFieldHintMissingDefault
- * ShouldReturnValueHintMissingDefault
- * IllegalModifierForInterfaceDefaultMethod
- * InheritedDefaultMethodConflictsWithOtherInherited
- * ConflictingNullAnnotations
- * ConflictingInheritedNullAnnotations
- * UnsafeElementTypeConversion
- * ArrayReferencePotentialNullReference
- * DereferencingNullableExpression
- * NullityMismatchingTypeAnnotation
- * NullityMismatchingTypeAnnotationSuperHint
- * NullityUncheckedTypeAnnotationDetail
- * NullityUncheckedTypeAnnotationDetailSuperHint
- * NullableFieldReference
- * UninitializedNonNullField
- * UninitializedNonNullFieldHintMissingDefault
- * NonNullMessageSendComparisonYieldsFalse
- * RedundantNullCheckOnNonNullSpecdField
- * NonNullSpecdFieldComparisonYieldsFalse
- * NonNullExpressionComparisonYieldsFalse
- * RedundantNullCheckOnNonNullExpression
- * ReferenceExpressionParameterNullityMismatch
- * ReferenceExpressionParameterNullityUnchecked
- * ReferenceExpressionReturnNullRedef
- * ReferenceExpressionReturnNullRedefUnchecked
- * DuplicateInheritedDefaultMethods
- * SuperAccessCannotBypassDirectSuper
- * SuperCallCannotBypassOverride
- * ConflictingNullAnnotations
- * ConflictingInheritedNullAnnotations
- * UnsafeElementTypeConversion
- * PotentialNullUnboxing
- * NullUnboxing
- * NullExpressionReference
- * PotentialNullExpressionReference
- * RedundantNullCheckAgainstNonNullType
- * NullAnnotationUnsupportedLocation
- * NullAnnotationUnsupportedLocationAtType

```

* NullityMismatchTypeArgument
* ContradictoryNullAnnotationsOnBound
* UnsafeNullnessCast
* ContradictoryNullAnnotationsInferred
* NonNullDefaultDetailIsNotEvaluated
* NullNotCompatibleToFreeTypeVariable
* NullityMismatchAgainstFreeTypeVariable
* ImplicitObjectBoundNonNullDefault
* IllegalParameterNullityRedefinition
* ContradictoryNullAnnotationsInferredFunctionType
* IllegalReturnNullityRedefinitionFreeTypeVariable
* UnlikelyCollectionMethodArgumentType
* UnlikelyEqualsArgumentType
* Jesper S Moller - added the following constants
* TargetTypeNotAFunctionalInterface
* OuterLocalMustBeEffectivelyFinal
* IllegalModifiersForPackage
* DuplicateAnnotationNotMarkedRepeatable
* DisallowedTargetForContainerAnnotation
* RepeatedAnnotationWithContainerAnnotation
* ContainingAnnotationMustHaveValue
* ContainingAnnotationHasNonDefaultMembers
* ContainingAnnotationHasWrongValueType
* ContainingAnnotationHasShorterRetention
* RepeatableAnnotationHasTargets
* RepeatableAnnotationTargetMismatch
* RepeatableAnnotationIsDocumented
* RepeatableAnnotationIsInherited
* RepeatableAnnotationWithRepeatingContainerAnnotation
* VarLocalMultipleDeclarators
* VarLocalCannotBeArray
* VarLocalReferencesItself
* VarLocalWithoutInitializer
* VarLocalInitializedToNull
* VarLocalCannotBeArrayInitializers
* VarLocalCannotBeLambda
* VarLocalCannotBeMethodReference
* VarIsReserved
* VarIsReservedInFuture
* VarIsNotAllowedHere
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/core/compiler/IProblem.java

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*   IBM Corporation - initial API and implementation
*   Erling Ellingsen - patch for bug 125570
*   Stephan Herrmann - Contribution for
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*   Sebastian Zarnekow - Contribution for
*     Bug 544921 - [performance] Poor performance with large source files
*****/
```

Found in path(s):

```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contributions for
*     bug 332637 - Dead Code detection removing code that isn't dead
*     bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
*     bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*****/
```

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```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/flow/ConditionalFlowInfo.java
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*   Stephan Herrmann - Contribution for
*     bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*     Bug 415850 - [1.8] Ensure RunJDTCORETests can cope with null annotations enabled
*     Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*     Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*     Bug 426792 - [1.8][inference][impl] generify new type inference engine
*     Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*     Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*     Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*     Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java

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```

- * Stephan Herrmann - Contributions for
 - * bug 349326 - [1.7] new warning for missing try-with-resources
 - * bug 186342 - [compiler][null] Using annotations for null checking
 - * bug 365519 - editorial cleanup after bug 186342 and bug 365387
 - * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
 - * bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
 - * bug 383368 - [compiler][null] syntactic null analysis for field references
 - * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 - * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 - * Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
 - * Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
 - * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
 - * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
 - * Jesper S Moller <jesper@selskabet.org> - Contributions for
 - * bug 378674 - "The method can be declared as static" is wrong
- *****/

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MethodDeclaration.java
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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithAnnotations.java
 - * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryAnnotation.java
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* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/ExpressionContext.java

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* Stephan Herrmann - Contribution for
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/flow/SwitchFlowContext.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java

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*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
*     Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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```

* Bug 428811 - [1.8][compiler] Type witness unnecessarily required

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/PolyTypeBinding.java

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocModuleReference.java

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* IBM Corporation - bug fixes

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*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*     Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*     Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
*   Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete
suggestions
*   Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing
*****/

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Found in path(s):

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/core/compiler/CharOperation.java

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintTypeFormula.java  
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*     bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*     bug 401030 - [1.8][null] Null analysis support for lambda methods.
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*****/
```

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 292478 - Report potentially null across variable assignment

* bug 332637 - Dead Code detection removing code that isn't dead

* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement

* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment

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* Stephan Herrmann - Contribution for

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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 * bug 185682 - Increment/decrement operators mark local variables as read
 * bug 186342 - [compiler][null] Using annotations for null checking
 * bug 365519 - editorial cleanup after bug 186342 and bug 365387
 * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
 * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 * Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first
 field
 * Bug 458396 - NPE in CodeStream.invoke()
 * Jesper S Moller - Contributions for
 * bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 * bug 331649 - [compiler][null] consider null annotations for fields
 * bug 383368 - [compiler][null] syntactic null analysis for field references
 * bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
 * Jesper S Moller <jesper@selskabet.org> - Contributions for
 * bug 378674 - "The method can be declared as static" is wrong
 *****/

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 * IBM Corporation - Fix for bug 341494
 * IBM Corporation - Fix for bug 328575

* IBM Corporation - Java 8 support

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* Stephan Herrmann - Contributions for

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 358903 - Filter practically unimportant resource leak warnings

* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account

* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions

* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),

Collection#remove(Object) et al.

* Jesper S Moller <jesper@selskabet.org> - Contributions for

* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable

* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for

* bug 386692 - Missing "unused" warning on "autowired" fields

* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for

* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown

when using MethodSource

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- * bug 349326 - [1.7] new warning for missing try-with-resources
- * bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
- * bug 358903 - Filter practically unimportant resource leak warnings
- * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- * bug 370639 - [compiler][resource] restore the default for resource leak warnings
- * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- * bug 379784 - [compiler] "Method can be static" is not getting reported
- * bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- * bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
- * Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
- * Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
- * Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding with try-catch
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * bug 378674 - "The method can be declared as static" is wrong
- * Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 185682 - Increment/decrement operators mark local variables as read

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 383368 - [compiler][null] syntactic null analysis for field references

* Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 458396 - NPE in CodeStream.invoke()

* Jesper S Moller - Contributions for

* Bug 378674 - "The method can be declared as static" is wrong

* Robert Roth <robert.roth.off@gmail.com> - Contributions for

* Bug 361039 - NPE in FieldReference.optimizedBooleanConstant

/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FieldReference.java

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/ArchiveFileObject.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Util.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java

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 - * Bug 440687 - [compiler][batch][null] improve command line option for external annotations
- *****

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredOpensStatement.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java

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* Jesper Steen Moller - Contributions for:

* Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container

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* Patrick Wienands <pwienands@abit.de> - Contribution for bug 393749

* Stephan Herrmann - Contribution for

* bug 331649 - [compiler][null] consider null annotations for fields

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*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contribution for
*     bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*     bug 388954 - [1.8][compiler] detect default methods in class files
*     bug 388281 - [compiler][null] inheritance of null annotations as an option
*     bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared
abstract
*     bug 390883 - [1.8][compiler] Unable to override default method
*     bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*     bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*     bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*     bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*     Bug 420080 - [1.8] Overridden Default method is reported as duplicated
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jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier.java
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jar/org/eclipse/jdt/internal/compiler/util/HashtableOfPackage.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java  
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jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking

* Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 407191 - [1.8] Binary access support for type annotations

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* Bug 328281 - visibility leaks not detected when analyzing unused field in private class

* Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries

* Bug 354536 - compiling package-info.java still depends on the order of compilation units

* Bug 349326 - [1.7] new warning for missing try-with-resources

* Bug 358903 - Filter practically unimportant resource leak warnings

* Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class

* Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class

* Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens

"sometimes"

- * Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
- * het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
- * Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
- * Bug 473178

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- * bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
- * bug 349326 - [1.7] new warning for missing try-with-resources
- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
- * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- * bug 383690 - [compiler] location of error re uninitialized final field should be aligned
- * bug 331649 - [compiler][null] consider null annotations for fields
- * bug 383368 - [compiler][null] syntactic null analysis for field references
- * bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
- * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- * bug 386692 - Missing "unused" warning on "autowired" fields

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* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

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* Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for

* bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource

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* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface

* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument

annotations

* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards

* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations

- * Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- * Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch
- * Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
- * Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
- * Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
- * Bug 426792 - [1.8][inference][impl] generify new type inference engine
- * Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
- * Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
- * Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- * Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
- * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- * Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
- * Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
- * Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
- * Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedTypeBinding.java

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedCompoundNameVector.java

- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java

- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java

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* Stephan Herrmann - Contribution for

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 370930 - NonNull annotation not considered for enhanced for loops

* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 393719 - [compiler] inconsistent warnings on iteration variables

* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch

* Jesper S Moller - Contribution for

* bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)

* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

/**

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java

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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* Stephan Herrmann - Contributions for

* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)

*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for  
* bug 185682 - Increment/decrement operators mark local variables as read  
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types  
* bug 331649 - [compiler][null] consider null annotations for fields  
* bug 383368 - [compiler][null] syntactic null analysis for field references  
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files  
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement  
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null  
*/
```

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Reference.java
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
* bug 407191 - [1.8] Binary access support for type annotations  
* Stephan Herrmann - Contribution for  
* Bug 440474 - [null] textual encoding of external null annotations  
*/
```


*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryType.java

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* Stephan Herrmann - Contributions for

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location

* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

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- * Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
- * Bug 473178

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java

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* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForStatement.java

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* IBM Corporation - Fix for bug 328575
* het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementAnnotatedWith()
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* Stephan Herrmann - Contribution for

- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- * Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
- * Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
- * Bug 456924 - StackOverflowError during compilation
- * Bug 462790 - [null] NPE in Expression.computeConversion()
- * Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
- * Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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- * BEA - Patch for bug 172743

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*   bug 317046 - Exception during debugging when hover mouse over a field
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
*   Bug 426792 - [1.8][inference][impl] generify new type inference engine
*   Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*   Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*   Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Bug 435962 - [RC2] StackOverFlowError when building
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

```

- * Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- * Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- *

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* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 265744 - Enum switch should warn about missing default

* bug 374605 - Unreasonable warning for enum-based switch statements

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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- * Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
- * Stephan Herrmann - Contributions for
- * bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
- * bug 374605 - Unreasonable warning for enum-based switch statements
- * bug 393719 - [compiler] inconsistent warnings on iteration variables
- * bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
- * bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
- * bug 401035 - [1.8] A few tests have started failing recently
- * Jesper S Moller - Contributions for
- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- * bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
- * bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
- * bug 393192 - Incomplete type hierarchy with > 10 annotations
- * bug 527554 - [1.8.3] Compiler support for JEP 286 Local-Variable Type
- * Andy Clement - Contributions for
- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- * Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
- * Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes

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* Contributors:

* tyeung@bea.com - initial API and implementation

* olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods

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Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/NonNullDefaultAwareTypeAnnotationWalker.java
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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocImplicitTypeReference.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java
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* Contributors:
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*   Stephan Herrmann - Contribution for
*     Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*     Bug 473178
*****/

```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/batch/ClasspathDirectory.java
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*   Perry James - nullStatus method improvement (165346)
*   Stephan Herrmann - Contribution for
*     bug 383368 - [compiler][null] syntactic null analysis for field references
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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 * bug 186342 - [compiler][null] Using annotations for null checking
 * bug 367203 - [compiler][null] detect assigning null to nonnull argument
 * bug 365519 - editorial cleanup after bug 186342 and bug 365387
 * bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
 * bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
 * bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * bug 388281 - [compiler][null] inheritance of null annotations as an option
 * bug 401030 - [1.8][null] Null analysis support for lambda methods.
 * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 * Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
 * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
 * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
 * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
 * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
 *****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AbstractMethodDeclaration.java

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* Bug 458396 - NPE in CodeStream.invoke()

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* Stephan Herrmann - Contributions for

* bug 292478 - Report potentially null across variable assignment

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 426792 - [1.8][inference][impl] generify new type inference engine

* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?

* Bug 428274 - [1.8] [compiler] Cannot cast from Number to double

* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

* Bug 473178

*****/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/Expression.java

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*       bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
*       Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*       Bug 457079 - Regression: type inference
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/LookupEnvironment.java
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* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AbstractVariableDeclaration.java
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/TypeAnnotationCodeStream.java
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*
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
*   bug 292478 - Report potentially null across variable assignment
*   bug 335093 - [compiler][null] minimal hook for future null annotation support
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 430150 - [1.8][null] stricter checking against type variables
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Jesper S Moller - Contributions for
*   Bug 378674 - "The method can be declared as static" is wrong
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   Bug 529556 - [18.3] Add content assist support for 'var' as a type
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*   Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
*****/

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* wharley@bea.com - initial API and implementation

* (originally in org.eclipse.jdt.apt.core)

* IBM Corporation - Bug 513790

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jar/org/eclipse/jdt/internal/compiler/lookup/IQualifiedTypeResolutionListener.java
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* Jesper S Moller - Contributions for  
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression  
* Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference  
expressions  
* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)  
* Stephan Herrmann - Contribution for  
* bug 402028 - [1.8][compiler] null analysis for reference expressions  
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax  
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled  
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"  
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to  
Files::walk  
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
```

- * Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- * Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
- * Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J involved
- * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- * Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
- * Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
- * Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- * Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- * Bug 438945 - [1.8] NullPointerException InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
- * Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ReferenceExpression.java

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for  
* bug 185682 - Increment/decrement operators mark local variables as read  
* bug 349326 - [1.7] new warning for missing try-with-resources  
* bug 186342 - [compiler][null] Using annotations for null checking  
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations  
* bug 331649 - [compiler][null] consider null annotations for fields  
* Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis  
* Jesper S Møller <jesper@selskabet.org> - Contributions for  
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type  
*  
*/
```

Found in path(s):

```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/LocalVariableBinding.java  
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* Contributors:  
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
* Bug 407191 - [1.8] Binary access support for type annotations  
*/
```

Found in path(s):

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithTypeAnnotations.java

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* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 370639 - [compiler][resource] restore the default for resource leak warnings

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

* bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 416267 - NPE in QualifiedAllocationExpression.resolveType

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Jesper S Moller <jesper@selskabet.org> - Contributions for

* bug 378674 - "The method can be declared as static" is wrong

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

* Till Brychcy - Contributions for

* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

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* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 364890 - BinaryTypeBinding should use char constants from Util

* bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.

* bug 358903 - Filter practically unimportant resource leak warnings

* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

* bug 388800 - [1.8][compiler] detect default methods in class files

* bug 388281 - [compiler][null] inheritance of null annotations as an option

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 415850 - [1.8] Ensure RunJDTCORETests can cope with null annotations enabled

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource

* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.

* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type

* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations

* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

* Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)

* Bug 454182 - Internal compiler error when using 1.8 compliance for simple project

* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file

* Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning

* Jesper Steen Moller - Contributions for

* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable

* Sebastian Zarnekow - Contributions for

* bug 544921 - [performance] Poor performance with large source files

* Alexander Lehmann - Contributions for
* bug 566258 - Intermittent NPE in APT RoundDispatcher
*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 295551 - Add option to automatically promote all warnings to errors
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 366063 - Compiler should not add synthetic @NonNull annotations

- * bug 374605 - Unreasonable warning for enum-based switch statements
 - * bug 388281 - [compiler][null] inheritance of null annotations as an option
 - * bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
 - * bug 383368 - [compiler][null] syntactic null analysis for field references
 - * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
 - * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
 - * Jesper Steen Moller - Contributions for
 - * bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
 - * bug 407297 - [1.8][compiler] Control generation of parameter names by option
- *****/

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 * wharley@bea.com - initial API and implementation
 * IBM Corporation - fix for 342598
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* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

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* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 358903 - Filter practically unimportant resource leak warnings

* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

* bug 388281 - [compiler][null] inheritance of null annotations as an option

* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account

- * bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- * bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- * Bug 426792 - [1.8][inference][impl] generify new type inference engine
- * Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
- * Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
- * Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 431581 - Eclipse compiles what it should not
- * Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 446442 - [1.8] merge null annotations from super methods
- * Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
- * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- * Jesper S Moller - Contributions for
- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- * bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- * bug 386692 - Missing "unused" warning on "autowired" fields
- * Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
- * bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
- * Sebastian Zarnekow - Contributions for
- * bug 544921 - [performance] Poor performance with large source files

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* Igor Fedorenko - extracted from ElementsImpl
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*     Bug 407191 - [1.8] Binary access support for type annotations
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* wharley@bea.com - initial API and implementation
* IBM Corporation - fix for 342598
* IBM Corporation - Java 8 support
* het@google.com - Bug 427943 - The method
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* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
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*     bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
*     bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*     Bug 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
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*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*     Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*     Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*     Bug 425783 - An internal error occurred during: "Requesting Java AST from selection".
java.lang.StackOverflowError
*     Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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 * Jesper S Moller - Contributions for
 * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
 * bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 * Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
 * Stephan Herrmann - Contribution for
 * bug 401030 - [1.8][null] Null analysis support for lambda methods.
 * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
 * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
 * Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
 * Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
 * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
 * Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
 * Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
 * Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
 * Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
 * Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is applicable here"
 * Bug 427438 - [1.8][compiler] NPE at
 org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 * Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
 * Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda compatibility constraint
 * Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
 * Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
 * Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
 * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
 * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
 * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
 * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
 * Bug 455723 - Nonnull argument not correctly inferred in loop
 * Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
 * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 * Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
 *****/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LambdaExpression.java

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* Contributors:

* IBM Corporation - initial API and implementation

* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor

* bug 370639 - [compiler][resource] restore the default for resource leak warnings

* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 424710 - [1.8][compiler] CCE in SimpleNameReference.localVariableBinding

* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.

* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context

* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?

* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

*/

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* Contributors:

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* Stephan Herrmann - Contributions for

* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 358903 - Filter practically unimportant resource leak warnings

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 370639 - [compiler][resource] restore the default for resource leak warnings

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 424727 - [compiler][null] NullPointerException in

nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)

* Bug 424710 - [1.8][compiler] CCE in SimpleNameReference.localVariableBinding

* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.

* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context

* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?

* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler

* Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.

* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?

* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

* Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding

* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)

- * Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional expression
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * bug 378674 - "The method can be declared as static" is wrong
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- * Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
- * Till Brychcy - Contributions for
- * bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
- * Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
- * Bug 473178

*****/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AllocationExpression.java

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* Stefan Xenos (Google) - Initial implementation

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* wharley@bea.com - initial API and implementation
* IBM Corporation - Java 8 support

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/model/NoTypeImpl.java
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* Jesper S Moller <jesper@selskabet.org> - initial API and implementation

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 *     Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
 *     Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
 *     Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
 *     Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
 *   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 *     Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
 *   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
 *     Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
 */
```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/IntersectionTypeBinding18.java
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 *   Stephan Herrmann - Contributions for
 *     Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
 *     Bug 388630 - @NonNull diagnostics at line 0
 *     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 *     Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
 */
```

- * Bug 424727 - [compiler][null] NullPointerException in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
 - * Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
 - * Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
 - * Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
 - * Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
 - * Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException
- *****/

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TypeDeclaration.java
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 * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
 */

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ExceptionLabel.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerRequestor.java

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* Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks

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* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 417758 - [1.8][null] Null safety compromise during array creation.

* Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array

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Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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* Contributors:
* wharley@bea.com - initial API and implementation
* philippe.marschall@netcetera.ch - Fix for 338370
* IBM Corporation - Fix for validating relative name
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchProcessingEnvImpl.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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*     bug 185682 - Increment/decrement operators mark local variables as read
*     bug 331649 - [compiler][null] consider null annotations for fields
*     Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
*     Bug 447088 - [null] @Nullable on fully qualified field type is ignored
*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*     Bug 458396 - NPE in CodeStream.invoke()
*     Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
*   Till Brychcy - Contribution for
*     bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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 * Stephan Herrmann - Contributions for
 * bug 335093 - [compiler][null] minimal hook for future null annotation support
 * bug 349326 - [1.7] new warning for missing try-with-resources
 * bug 186342 - [compiler][null] Using annotations for null checking
 * bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
 * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
 * bug 370930 - NonNull annotation not considered for enhanced for loops
 * bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
 * bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
 * bug 331649 - [compiler][null] consider null annotations for fields
 * bug 383368 - [compiler][null] syntactic null analysis for field references
 * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 * Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
 * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 * Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
 * Bug 417758 - [1.8][null] Null safety compromise during array creation.
 * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
 * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
 * Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
 * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
 * Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
 * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
 * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
 * Bug 455723 - Nonnull argument not correctly inferred in loop
 * Andy Clement - Contributions for
 * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
 * Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
 *****/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Statement.java

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* Stephan Herrmann - Contribution for
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*****/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/flow/LabelFlowContext.java

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jar/org/eclipse/jdt/internal/compiler/parser/RecoveryScannerData.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java

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* Stephan Herrmann - Contribution for

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UnionTypeReference.java

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*   wharley@bea.com - initial API and implementation
*   IBM Corporation - fix for 342598
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/model/DeclaredTypeImpl.java
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*   Stephan Herrmann - Contributions for
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*****/

```

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*   Stephan Herrmann - contributions for
*     bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*     bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*     bug 385626 - @NonNull fails across loop boundaries
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 376263 - Bogus "Potential null pointer access" warning
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*     bug 406384 - Internal error with I20130413
*     Bug 415413 - [compiler][null] NullPointerException in Null Analysis caused by interaction of
LoopingFlowContext and FinallyFlowContext
*     Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*     Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
*     Bug 455723 - Nonnull argument not correctly inferred in loop
*     Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
*     Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*   Jesper S Moller - contributions for
*     bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*****/

```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/LoopingFlowContext.java

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* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithParameterAnnotations.java

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* David Foerster - patch for toUpperCase as described in https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125
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* Stephan Herrmann - Contribution for
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java

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* Stephan Herrmann - Contributions for

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 387612 - Unreachable catch block...exception is never thrown from the try

* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug 401456 - Code compiles from javac/intellij, but fails from eclipse

* bug 401271 - StackOverflowError when searching for a methods references

* bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic

* Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the interface type as the last parameter

* Bug 413958 - Function override returning inherited Generic Type

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations

* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding

* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.

* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context

* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?

* Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument

* Bug 426590 - [1.8][compiler] Compiler error with ternary operator

* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler

* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)

* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method

- * Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- * Bug 427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
- * Bug 427218 - [1.8][compiler] Verify error varargs + inference
- * Bug 426836 - [1.8] special handling for return type in references to method getClass()?
- * Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
- * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- * Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type

Bindings

- * Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
- * Bug 428811 - [1.8][compiler] Type witness unnecessarily required
- * Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
- * Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- * Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- * Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
- * Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite

@NonNullByDefault

- * Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
- * Jesper S Moller - Contributions for
- * Bug 378674 - "The method can be declared as static" is wrong
- * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
- * Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
- * Bug 559618 - No compiler warning for import from same package
- * Bug 560630 - No warning on unused import on class from same package

*****/

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ICompilerRequestor.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java
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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java
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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
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jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java
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jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/codegen/Label.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/codegen/CaseLabel.java

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* Contributors:

* IBM Corporation - initial API and implementation
* Jesper S Moller - Contributions for
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
* Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
"Invalid lambda deserialization"

*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/codegen/ConstantPool.java

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* Stephan Herrmann - Contribution for
* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 458396 - NPE in CodeStream.invoke()
*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - contributions for
* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
* bug 186342 - [compiler][null] Using annotations for null checking
*****/

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*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*****/
```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/MemberValuePair.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/env/IGenericMethod.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
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* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
*****/

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jar/org/eclipse/jdt/internal/compiler/parser/RecoveredBlock.java

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jar/org/eclipse/jdt/internal/compiler/ast/Invocation.java

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* IBM Corporation - initial API and implementation

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* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 388281 - [compiler][null] inheritance of null annotations as an option

* bug 388795 - [compiler] detection of name clash depends on order of super interfaces

* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared

abstract

- * bug 390883 - [1.8][compiler] Unable to override default method
- * bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- * bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
- * bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
- * bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
- * bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
- * bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
- * bug 409473 - [compiler] JDT cannot compile against JRE 1.8
- * Bug 420080 - [1.8] Overridden Default method is reported as duplicated
- * Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
- * Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- * Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in @NonNullByDefault
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 446442 - [1.8] merge null annotations from super methods

*****/

Found in path(s):

*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier15.java

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*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ProblemMethodBinding.java

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jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/util/Messages.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java

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* Contributors:

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* Benjamin Muskalla - Contribution for bug 239066

* Stephan Herrmann - Contributions for

* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

* bug 338303 - Warning about Redundant assignment conflicts with definite assignment

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

* bug 374605 - Unreasonable warning for enum-based switch statements

* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.

* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance

* bug 388281 - [compiler][null] inheritance of null annotations as an option

* bug 376053 - [compiler][resource] Strange potential resource leak problems

* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated

* bug 393719 - [compiler] inconsistent warnings on iteration variables

* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared

abstract

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null

* bug 376590 - Private fields with @Inject are ignored by unused field validation

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* bug 402028 - [1.8][compiler] null analysis for reference expressions

* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method

* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations

* Bug 415850 - [1.8] Ensure RunJDTCORETests can cope with null annotations enabled

* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first

field

- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to

Files::walk

- * Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
- * Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type

Bindings

- * Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
- * Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
- * Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- * Bug 430150 - [1.8][null] stricter checking against type variables
- * Bug 434600 - Incorrect null analysis error reporting on type parameters
- * Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- * Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method _ due to incompatible nullness constraints"
- * Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault in package-info.java

- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 446442 - [1.8] merge null annotations from super methods
- * Bug 455723 - Nonnull argument not correctly inferred in loop
- * Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
- * Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- * Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
- * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),

Collection#remove(Object) et al.

- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- * bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
- * bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
- * bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * bug 412151 - [1.8][compiler] Check repeating annotation's collection type
- * bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- * Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- * Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- * bug 386692 - Missing "unused" warning on "autowired" fields

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* Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)

* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 430150 - [1.8][null] stricter checking against type variables

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped

*****/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CastExpression.java

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* Contributors:

* IBM Corporation - initial API and implementation

* Stephan Herrmann - Contribution for

* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

* Bug 440687 - [compiler][batch][null] improve command line option for external annotations

*****/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJar.java

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* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch

*****/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/DoStatement.java

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* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

* bug 385626 - @NonNull fails across loop boundaries

* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

* Bug 455723 - Nonnull argument not correctly inferred in loop

* Jesper S Moller - Contributions for

* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops

*/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FinallyFlowContext.java

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/DoubleConstant.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java

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* Kenneth Olson - initial API and implementation

* Dennis Hendriks - initial API and implementation

* IBM Corporation - Contribution for bug 188796

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* Stephan Herrmann - Contribution for

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator

*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntersectionCastTypeReference.java

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* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/Binding.java
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* Stephan Herrmann - Contribution for
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java
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* Frits Jalvingh - fix for bug 533830.
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
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*   het@google.com - Bug 441790  
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jar/org/eclipse/jdt/internal/compiler/env/ISourceType.java
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java
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 *   Genady Beriozkin - added support for reporting assignment with no effect
 *   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
 *     bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
 *     bug 292478 - Report potentially null across variable assignment
 *     bug 335093 - [compiler][null] minimal hook for future null annotation support
 */
```

- * bug 349326 - [1.7] new warning for missing try-with-resources
- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 358903 - Filter practically unimportant resource leak warnings
- * bug 370639 - [compiler][resource] restore the default for resource leak warnings
- * bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- * bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- * bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- * bug 331649 - [compiler][null] consider null annotations for fields
- * bug 383368 - [compiler][null] syntactic null analysis for field references
- * bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
- * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- * Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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Found in path(s):

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* Jesper S Moller - Bug 392671

* NPE with a method with explicit this and a following incomplete parameter

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithAnnotations.java
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* Stephan Herrmann - Contribution for
* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java
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jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java
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* Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously

* bug 292478 - Report potentially null across variable assignment

* bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself

* bug 354554 - [null] conditional with redundant condition yields weak error message

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions

* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

*****/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ConditionalExpression.java

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*   Stephan Herrmann - Contributions for
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*     bug 413958 - Function override returning inherited Generic Type
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*     Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*     Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*     Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*     Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*     Bug 446442 - [1.8] merge null annotations from super methods
*     Bug 457079 - Regression: type inference
*****/

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Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedGenericMethodBinding.java

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- * Stephan Herrmann - Contribution for
 - * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
 - * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- *****/

Found in path(s):

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* Jesper S Moller - Contributions for

* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

* Stephan Herrmann - Contribution for

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"

* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType

* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression

* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error

* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

* Bug 446442 - [1.8] merge null annotations from super methods

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FunctionalExpression.java

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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* Jesper S Moller - Contributions for
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*****/

Found in path(s):

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/AnnotationContext.java

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* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
* Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
*****/

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* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
* Bug 446691 - [1.8][null][compiler] NullPointerException in SimpleNameReference.analyseCode
*****/

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jar/org/eclipse/jdt/internal/compiler/flow/FlowContext.java

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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

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* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code

* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics

* bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtype

* Jesper S Moller - Contributions for

* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array

- * Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
- * Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
- * Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
- * Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
- * Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
- * Bug 442418 - \$deserializeLambda\$ off-by-one error when deserializing the captured arguments of a lambda that also capture this

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* bug 331649 - [compiler][null] consider null annotations for fields

* bug 383368 - [compiler][null] syntactic null analysis for field references

* Jesper S Moller - Contributions for

* Bug 378674 - "The method can be declared as static" is wrong

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* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* Stephan Herrmann - Contribution for
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected

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* IBM Corporation - Java 8 support

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/PrimitiveTypeImpl.java

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* Walter Harley - initial API and implementation

* IBM Corporation - fix for 342598, 382590

* Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/core/compiler/InvalidInputException.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java

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* Matt McCutchen - partial fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995

* Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411

* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 185682 - Increment/decrement operators mark local variables as read

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 374605 - Unreasonable warning for enum-based switch statements

* bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation

* bug 393719 - [compiler] inconsistent warnings on iteration variables

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith

- * Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- * Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- * Bug 427282 - [1.8][compiler] AIOOB (-1) at org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
- * Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- * Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs
- * Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
- * Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
- * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- * Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- * Bug 446442 - [1.8] merge null annotations from super methods
- * Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
- * Jesper S Moller - Contributions for
 - * bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 - * bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
 - * bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
 - * bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
 - * bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- * Till Brychcy - Contributions for
 - * bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.

*****/

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ASTNode.java

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- * Stephan Herrmann - Contributions for
 - * bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
 - * bug 349326 - [1.7] new warning for missing try-with-resources
 - * bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)

- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 365835 - [compiler][null] inconsistent error reporting.
- * bug 365519 - editorial cleanup after bug 186342 and bug 365387
- * bug 358903 - Filter practically unimportant resource leak warnings
- * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- * bug 370639 - [compiler][resource] restore the default for resource leak warnings
- * bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- * bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- * bug 383368 - [compiler][null] syntactic null analysis for field references
- * bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- * bug 401030 - [1.8][null] Null analysis support for lambda methods.
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- * Bug 417758 - [1.8][null] Null safety compromise during array creation.
- * Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 430150 - [1.8][null] stricter checking against type variables
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- * Bug 455723 - Nonnull argument not correctly inferred in loop
- * Jesper S Moller - Contributions for
- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

*****/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ReturnStatement.java

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 *
 * Contributors:
 * tyeung@bea.com - initial API and implementation
 * olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
 */

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java

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* Contributors:

* Stefan Xenos <sxenos@gmail.com> (Google) - initial API and implementation

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ExternalAnnotationDecorator.java

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* IBM Corporation - initial API and implementation

* Stephan Herrmann - Contributions for

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

* Bug 440282 - [resource] Resource leak detection false negative with empty finally block

*****/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Block.java

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* Contributors:

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* Stephan Herrmann - Contribution for

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

*****/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayTypeReference.java

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJrt.java

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 * Contributors:
 * wharley@bea.com - initial API and implementation
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
 jar/org/eclipse/jdt/internal/compiler/apt/model/PackageElementImpl.java
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 * Contributors:
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 * Stephan Herrmann - Contributions for
 * bug 349326 - [1.7] new warning for missing try-with-resources
 * bug 358903 - Filter practically unimportant resource leak warnings
 * bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
 * bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
 * bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
 * Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
 * Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
 * Bug 425183 - [1.8][inference] make CaptureBinding18 safe
 * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
 Collection#remove(Object) et al.
 * Jesper S Moller - Contributions for
 * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
 * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
 * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
 * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 * Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas

- * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- * bug 386692 - Missing "unused" warning on "autowired" fields
- * Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
- * bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

*****/

Found in path(s):

- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeConstants.java

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- * IBM Corporation - initial API and implementation
- * Stephan Herrmann - Contributions for
- * bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
- * bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 416181 - [1.8][compiler][null] Invalid assignment is not rejected by the compiler
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 434600 - Incorrect null analysis error reporting on type parameters
- * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- * Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Andy Clement - Contributions for
- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedQualifiedTypeReference.java

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileObject.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java

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*   Stephan Herrmann - Contribution for
*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     bug 331649 - [compiler][null] consider null annotations for fields
*     bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*     Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*     Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*     Bug 458396 - NPE in CodeStream.invoke()
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/FieldDeclaration.java

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*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileManager.java
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileManager.java
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
```

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 *   Jesper S Moller - Contributions for
 *     Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
 *     Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
 *     Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
 *     Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
 *   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 *     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
 *     Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
 *     Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
 */
```


- * Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
 - * Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
 - * Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
 - * Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
 - * Bug 434556 - Broken class file generated for incorrect annotation usage
 - * Bug 442416 - \$deserializeLambda\$ missing cases for nested lambdas
 - * Stephan Herrmann - Contribution for
 - * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
 - * Olivier Tardieu tardieu@us.ibm.com - Contributions for
 - * Bug 442416 - \$deserializeLambda\$ missing cases for nested lambdas
- *****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ClassFile.java

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- * Stephan Herrmann - Contribution for
 - * bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 - * bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
 - * bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
 - * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 - * Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
 - * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
 - * Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs
 - * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 - * Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
 - * Bug 434600 - Incorrect null analysis error reporting on type parameters
 - * Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
 - * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
 - * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
 - * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
 - * Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 - * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
 - * Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
 - * Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
- * Jesper S Møller <jesper@selskabet.org> - Contributions for
 - * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
 - * bug 529556 - [18.3] Add content assist support for 'var' as a type

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TypeReference.java

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- * Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
- * Stephan Herrmann - Contributions for
 - * bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
 - * bug 349326 - [1.7] new warning for missing try-with-resources
 - * bug 186342 - [compiler][null] Using annotations for null checking
 - * bug 358903 - Filter practically unimportant resource leak warnings
 - * bug 370639 - [compiler][resource] restore the default for resource leak warnings
 - * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 - * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
 - * bug 379784 - [compiler] "Method can be static" is not getting reported
 - * bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
- * bug 388281 - [compiler][null] inheritance of null annotations as an option
- * bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- * bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- * bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
- * bug 331649 - [compiler][null] consider null annotations for fields
- * bug 383368 - [compiler][null] syntactic null analysis for field references
- * bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- * bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
- * bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- * bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
- * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
- * Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
- * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- * Bug 424710 - [1.8][compiler] CCE in SimpleNameReference.localVariableBinding
- * Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- * Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- * Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- * Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- * Bug 427438 - [1.8][compiler] NPE at `org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)`
- * Bug 426996 - [1.8][inference] try to avoid method `Expression.unresolve()`?
- * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- * Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (`RuntimeException` instead of `IOException`)
- * Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

- * Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- * Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
- * Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
- * Bug 470958 - [1.8] Unable to convert lambda
- * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- * Jesper S Moller - Contributions for
- * Bug 378674 - "The method can be declared as static" is wrong
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- * Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MessageSend.java

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceSubstitution.java

- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationWalker.java

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*   Stephan Herrmann - Contributions for
*     bug 325755 - [compiler] wrong initialization state after conditional expression
*     bug 320170 - [compiler] [null] Whitebox issues in null analysis
*     bug 292478 - Report potentially null across variable assignment
*     bug 332637 - Dead Code detection removing code that isn't dead
*     bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*     bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*     Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*     Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*     Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/flow/UnconditionalFlowInfo.java

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```

*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contributions for
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 374605 - Unreasonable warning for enum-based switch statements
*     bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*     bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
*     bug 401030 - [1.8][null] Null analysis support for lambda methods.
*     Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Jesper S Moller - Contributions for
*     bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

```

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* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

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 - * bug 332637 - Dead Code detection removing code that isn't dead
 - * bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
 - * bug 349326 - [1.7] new warning for missing try-with-resources
 - * bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
 - * bug 358903 - Filter practically unimportant resource leak warnings
 - * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 - * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
 - * bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
 - * bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
 - * bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
 - * bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
 - * Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
 - * Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
 - * Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
- * Jesper Steen Moller - Contributions for
 - * bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 - * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java

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* bug 358903 - Filter practically unimportant resource leak warnings

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"

* Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression

* Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type

* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.

* Bug 435962 - [RC2] StackOverflowError when building

* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable

* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

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* Bug 378674 - "The method can be declared as static" is wrong
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
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* Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class

*****/

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* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking  
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
* Bug 407191 - [1.8] Binary access support for type annotations  
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* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute

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* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Jesper S Moller - Contributions for
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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* Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
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 - * bug 186342 - [compiler][null] Using annotations for null checking
 - * bug 367203 - [compiler][null] detect assigning null to nonnull argument
 - * bug 365519 - editorial cleanup after bug 186342 and bug 365387
 - * bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
 - * bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
 - * bug 388281 - [compiler][null] inheritance of null annotations as an option
 - * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 - * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
 - * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
 - * Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
 - * Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
 - * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 - * Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
 - * Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
 - * Bug 443347 - [1.8][null] @NonNullByDefault should not affect constructor arguments of an anonymous instantiation
 - * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
 - * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
 - * Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
 - * Bug 471611 - Error on hover on call to generic method with null annotation
 - * Jesper Steen Moller - Contributions for
 - * Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
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 * bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
 org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
 * Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
 * bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 * Bug 434600 - Incorrect null analysis error reporting on type parameters
 * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
 * Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
 * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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 * bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
 * bug 349326 - [1.7] new warning for missing try-with-resources
 * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 * bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

*****/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IfStatement.java

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/LexStream.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NormalAnnotation.java

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jar/org/eclipse/jdt/internal/compiler/batch/BasicModule.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/env/ModuleReferenceImpl.java
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*   Stephan Herrmann - Contribution for  
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java
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* Stephan Herrmann - Contributions for
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* Bug 417758 - [1.8][null] Null safety compromise during array creation.
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)

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* Bug 407191 - [1.8] Binary access support for type annotations

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Found in path(s):

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* bug 328281 - visibility leaks not detected when analyzing unused field in private class

* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.

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* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 415850 - [1.8] Ensure RunJDTCORETests can cope with null annotations enabled
* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
* Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
* Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
* Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
* Bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains

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 */
```

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```
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 *   bug 328281 - visibility leaks not detected when analyzing unused field in private class
 *   bug 349326 - [1.7] new warning for missing try-with-resources
 *   bug 186342 - [compiler][null] Using annotations for null checking
 *   bug 365836 - [compiler][null] Incomplete propagation of null defaults.
 *   bug 365519 - editorial cleanup after bug 186342 and bug 365387
 *   bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
 *   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
 *   bug 366063 - Compiler should not add synthetic @NonNull annotations
 *   bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
 *   bug 386356 - Type mismatch error with annotations and generics
 *   bug 388281 - [compiler][null] inheritance of null annotations as an option
 *   bug 331649 - [compiler][null] consider null annotations for fields
 */
```

- * bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
 - * bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
 - * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 - * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 - * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 - * Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
 - * Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
 - * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
 - * Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
 - * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 - * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 - * Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
 - * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
 - * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
 - * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
 - * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
 - * Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
 - * Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
 - * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
 - * Jesper S Moller <jesper@selskabet.org> - Contributions for
 - * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
 - * Till Brychcy - Contributions for
 - * bug 415269 - NonNullByDefault is not always inherited to nested classes
 - * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 - * Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
 - * Sebastian Zarnekow - Contributions for
 - * bug 544921 - [performance] Poor performance with large source files
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* Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ

* Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ

* Frits Jalvingh - fix for bug 533830.

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* Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java
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- * Stephan Herrmann - Contribution for
 - * bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
 - * bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
 - * Jesper S Moller <jesper@selskabet.org> - Contributions for
 - * bug 378674 - "The method can be declared as static" is wrong
- *****/

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 - * bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
 - * bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
 - * bug 404728 - [1.8]NPE on QualifiedSuperReference error
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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedSuperReference.java
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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJmod.java
- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FieldInitsFakingFlowContext.java

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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ExternalAnnotationSuperimposer.java

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jar/org/eclipse/jdt/internal/compiler/env/ISourceModule.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/env/IBinaryModule.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/env/IUpdatableModule.java
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 *   IBM Corporation - Java 8 support
 */
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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 * Stephan Herrmann - Contributions for
 * bug 186342 - [compiler][null] Using annotations for null checking
 * bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
 * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
 * Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
 * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java
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 * bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
 * bug 383368 - [compiler][null] syntactic null analysis for field references
 * bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
 * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
 * Bug 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
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Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OR_OR_Expression.java

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*   Tom Tromey - Contribution for bug 159641
*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contributions for
*     bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*     bug 295551 - Add option to automatically promote all warnings to errors
*     bug 359721 - [options] add command line option for new warning token "resource"
*     bug 365208 - [compiler][batch] command line options for annotation based null analysis
*     bug 374605 - Unreasonable warning for enum-based switch statements
*     bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
*     bug 388281 - [compiler][null] inheritance of null annotations as an option
*     bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*     Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*     Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
*   Jesper S Moller - Contributions for
*     bug 407297 - [1.8][compiler] Control generation of parameter names by option
*   Mat Booth - Contribution for bug 405176
*   Frits Jalvingh - fix for bug 533830.
*****/

```

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```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/batch/Main.java

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java
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- * /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/JrtFileSystem.java

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- * Bug 407297: [1.8][compiler] Control generation of parameter names by option

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- * Stephan Herrmann - Contribution for
- * bug 383368 - [compiler][null] syntactic null analysis for field references
- * bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

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```
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```
* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
```

```
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
```

```
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
```

```
* Till Brychcy - Contribution for
```

```
* Bug 473713 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
```

```
*****/
```

```
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
```

```
   E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
   needed for correctness, but for annotated object reuse. We provide two alternate ways to
   annotate a type:
```

```
   Taking parameterized types as an example, a call to getParameterizedType can be made with annotations
   to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
   and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
   the key, in the latter with List<String> as the key.
```

```
   Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these
   alternate code paths. Unless care is exercised, we will end up with duplicate objects (that share
   the same TypeBinding.id => correctness is not an issue, but memory wastage is)
```

```
*/
```

```
Found in path(s):
```

```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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```

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* Bug 407191 - [1.8] Binary access support for type annotations
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* Jesper S Moller - Contributions for
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 406973 - [compiler] Parse MethodParameters attribute
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*****/

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* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
* Stephan Herrmann - Contribution for
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java

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* bug 383368 - [compiler][null] syntactic null analysis for field references

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

* Andy Clement - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/InstanceOfExpression.java

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*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 370639 - [compiler][resource] restore the default for resource leak warnings
*     bug 265744 - Enum switch should warn about missing default
*     bug 374605 - Unreasonable warning for enum-based switch statements
*     bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*     Bug 441208 - [1.8][null] SuppressWarnings("null") does not suppress / marked Unnecessary
*     Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
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*     bug 292478 - Report potentially null across variable assignment,
*     bug 185682 - Increment/decrement operators mark local variables as read
*     bug 331649 - [compiler][null] consider null annotations for fields
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
*     Bug 458396 - NPE in CodeStream.invoke()
*     Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*   Jesper S Moller - <jesper@selskabet.org> - Contributions for

```

- * bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 - * bug 378674 - "The method can be declared as static" is wrong
 - * bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
 - * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- *****/

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 - * Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
 - * bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
 - * bug 349326 - [1.7] new warning for missing try-with-resources
 - * bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
 - * bug 358903 - Filter practically unimportant resource leak warnings
 - * bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
 - * bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
 - * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 - * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
 - * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
 - * Bug 426792 - [1.8][inference][impl] generify new type inference engine
 - * Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
 - * Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
 - * Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
 - * Bug 431408 - Java 8 (1.8) generics bug
 - * Bug 435962 - [RC2] StackOverflowError when building
 - * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
 - * Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
 - * Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
 - * Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
 - * Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
 - * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
 - * Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
 - * Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics

- * Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- * Bug 462790 - [null] NPE in Expression.computeConversion()
- * Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
- * Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
- * Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeVariableBinding.java

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* Stephan Herrmann - Contribution for

* Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

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1.729 node-cookie-parser v0.4.0

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1.730 moment 2.29.4

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1.731 sinonjs 1.7.3

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1.732 require-main-filename 2.0.0

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- * /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/codec/VarSignedIntegerCodec.java
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- * /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/BufferEditor.java

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* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-
jar/org/fusesource/hawtbuf/codec/ObjectCodec.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-
jar/org/fusesource/hawtbuf/DataByteArrayOutputStream.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-
jar/org/fusesource/hawtbuf/codec/BytesCodec.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-
jar/org/fusesource/hawtbuf/BufferOutputStream.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-
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1.735 system-collections-immutable 1.3.1

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

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By Sean Eron Anderson
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Title: Dealing with commas in a CSV file

Content: <https://stackoverflow.com/a/769713>

Question author: Bob The Janitor -- <https://stackoverflow.com/users/55102/bob-the-janitor>

Answer author: harp -- <https://stackoverflow.com/users/4525/harpo>

Use:

<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738>

```
<Project Sdk="Microsoft.NET.Sdk">
```

```
<PropertyGroup>
```

```
<OutputType>Exe</OutputType>
```

```
<ApplicationManifest>App.manifest</ApplicationManifest>
```

```
</PropertyGroup>
```

```
<ItemGroup>
```

```
<Compile Include="Program.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
```

```
<Compile Include="..\..\ServerContracts/ServerGuids.cs" />
```

```
</ItemGroup>
```

```
<ItemGroup>
```

```
<ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
```

```
<ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
```

```
</ItemGroup>
```

```
</Project>
```

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<https://www.simple-talk.com/dotnet/.net-framework/the-dangers-of-the-large-object-heap/>

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<https://github.com/santoshshahoo/nbench> (mirror of the same code)

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** Rick Grehan, BYTE Magazine

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** Create:

** Revision: 3/95

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1.736 guice-multibindings 4.0

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1.737 escape 3.6.0

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1.738 http-errors 1.7.2

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1.739 jasper-compiler-jdt 5.5.23

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1.741 system.speech 4

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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1.743 infer-owner 1.0.4

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1.744 postcss-font-variant 4.0.1

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1.745 xerces-j 2.12.2

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1.746 decamelize 1.2.0

1.747 snake-yaml 1.31

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Manifest-Version: 1.0

Automatic-Module-Name: org.yaml.snakeyaml

Bnd-LastModified: 1661625605519

Build-Jdk: 1.8.0_301

Built-By: somov

Bundle-Description: YAML 1.1 parser and emitter for Java

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: SnakeYAML

Bundle-SymbolicName: org.yaml.snakeyaml

Bundle-Version: 1.31.0

Created-By: Apache Maven Bundle Plugin

Export-Package: org.yaml.snakeyaml;version="1.31",org.yaml.snakeyaml.comments;version="1.31",org.yaml.snakeyaml.composer;version="1.31",org.yaml.snakeyaml.constructor;version="1.31",org.yaml.snakeyaml.emitter;version="1.31",org.yaml.snakeyaml.env;version="1.31",org.yaml.snakeyaml.error;version="1.31",org.yaml.snakeyaml.events;version="1.31",org.yaml.snakeyaml.extensions.compactnotation;version="1.31",org.yaml.snakeyaml.introspector;version="1.31",org.yaml.snakeyaml.nodes;version="1.31",org.yaml.snakeyaml.parser;version="1.31",org.yaml.snakeyaml.reader;version="1.31",org.yaml.snakeyaml.representer;version="1.31",org.yaml.snakeyaml.resolver;version="1.31",org.yaml.snakeyaml.scanner;version="1.31",org.yaml.snakeyaml.serializer;version="1.31",org.yaml.snakeyaml.tokens;version="1.31",org.yaml.snakeyaml.util;version="1.31"

Import-Package: org.yaml.snakeyaml;version="[1.31,2)",org.yaml.snakeyaml.comments;version="[1.31,2)",org.yaml.snakeyaml.composer;version="[1.31,2)",org.yaml.snakeyaml.emitter;version="[1.31,2)",org.yaml.snakeyaml.error;version="[1.31,2)",org.yaml.snakeyaml.events;version="[1.31,2)",org.yaml.snakeyaml.introspector;version="[1.31,2)",org.yaml.snakeyaml.nodes;version="[1.31,2)",org.yaml.snakeyaml.parser;version="[1.31,2)",org.yaml.snakeyaml.reader;version="[1.31,2)",org.yaml.snakeya

```
ml.resolver;version="[1.31,2)",org.yaml.snakeyaml.scanner;version="[1.31,2)",org.yaml.snakeyaml.serializer;version="[1.31,2)",org.yaml.snakeyaml.tokens;version="[1.31,2)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.5.0.201709291849
```

Found in path(s):

```
* /opt/cola/permits/1424299971_1663883632.755729/0/snakeyaml-1-31-3-jar/META-INF/MANIFEST.MF
```

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Found in path(s):

```
* /opt/cola/permits/1424299971_1663883632.755729/0/snakeyaml-1-31-3-jar/META-INF/maven/org.yaml/snakeyaml/pom.xml
```

1.748 react-dom 16.14.0

1.748.1 Available under license :

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1.749 commons-dbcp 2.0

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1.750 rsvp v4.8.5

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1.751 visual-studio-runtime 12.00.40664.0

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1.752 httpcomponents-mime 4.5.12

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1.753 node-int64 0.4.0

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1.754 lodash-cond 4.5.2

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1.755 j2objc-annotations 1.3

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```

*/

package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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- * encoding: US-ASCII
- * tab size: 8 (not used)
- * indentation:4
- *
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* created by: Markus W. Scherer
*
* Low-level Unicode bidi/shaping properties access.
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<http://oss.software.ibm.com/cvs/icu/icu/source/data/locales/vi.txt?rev=1.38>

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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by `char32At()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the bold font" has range (4, 8) replaced with "strong", then it becomes "the strong font".

<p><code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset `start..limit-1`. That is, the start offset is inclusive, and the limit offset is exclusive.

<p><code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

<p>For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

Set the metadata of the new text to the metadata of the first character replaced

If no characters are replaced, use the metadata of the previous character

If there is no previous character (i.e. `start == 0`), use the

following character

If there is no following character (i.e. the replaceable was empty), use default metadata

If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu

@stable ICU 2.0

<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.

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@see Replaceable

@author Alan Liu

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1.756 minimalistic-assert 1.0.1

1.757 jersey-server 1.19.4

1.758 tmp 0.0.29

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1.759 classnames 2.2.5

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1.760 joda-time 2.9

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1.761 xml-apis 1.4.01

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* /opt/ws_local/PERMITS_SQL/1091222660_1600451159.74/0/estools-esrecurse-v4-3-0-0-g8ceb637-tar-

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* /opt/ws_local/PERMITS_SQL/1091222660_1600451159.74/0/estools-esrecurse-v4-3-0-0-g8ceb637-tar-gz/estools-esrecurse-f285b57/test/traverse.js

1.776 pumpify 1.5.1

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1.777 find-babel-config 1.2.0

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* /opt/cola/permits/1349013147_1655879756.6643403/0/failureaccess-1-0-1-sources-4-jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java

1.779 javassist 3.21.0-GA

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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/CtMethod.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/CtArray.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/Executor.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/SymbolTable.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/stackmap/Tracer.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/ProxyObject.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ProceedHandler.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/InstanceOfExpr.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/expr/Handler.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/CallExpr.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/CtMember.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/MultiType.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/runtime/Desc.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ConstantAttribute.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/ProxyFactory.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/expr/NewExpr.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/ClassPath.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/NotFoundExcpetion.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformReadField.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/Mnemonic.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/SecurityActions.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ByteArray.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Pair.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/KeywordTable.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/stackmap/MapMaker.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/expr/ExprEditor.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/CtClassType.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/expr/Expr.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/ClassMetaobject.java

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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/DoubleMemberValue.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/FloatMemberValue.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ByteMemberValue.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValue.java

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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ShortMemberValue.java

1.780 asm 22.10.0

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1.782 objenesis 1.10.19

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1.790 connect-history-api-fallback 1.6.0

1.791 camelcase 4.1.2

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1.792 expand-range 1.8.2

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1.793 babel-preset-current-node-syntax 1.0.1

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1.794 modules 0.3.2

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1.795 types-json-schema 7.0.9

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1.796 dom 1.0

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ElementEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASObject.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASDataType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASContentModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/dom3/as/NodeEditAS.java

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Found in path(s):

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/package.html

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/w3c/dom/html/HTMLDOMImplementation.java

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*/
/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 *
 * @return a boolean that says whether this content has been compacted for UPA
 */

```

Found in path(s):

```

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java

```

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/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new LSParser. The newly constructed parser may
 * then be configured by means of its DOMConfiguration
 * object, and used to parse documents by means of its parse
 * method.
 * @param mode The mode argument is either
 * MODE_SYNCHRONOUS or MODE_ASYNCHRONOUS, if
 * mode is MODE_SYNCHRONOUS then the
 * LSParser that is created will operate in synchronous

```

- * mode, if it's `MODE_ASYNCHRONOUS` then the
- * `LSParser` that is created will operate in asynchronous
- * mode.
- * @param schemaType An absolute URI representing the type of the schema
- * language used during the load of a `Document` using the
- * newly created `LSParser`. Note that no lexical checking
- * is done on the absolute URI. In order to create a
- * `LSParser` for any kind of schema types (i.e. the
- * `LSParser` will be free to use any schema found), use the value
- * `null`.
- *

Note: For W3C XML Schema [[XML Schema Part 1](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)],
- * , applications must use the value
- * `"http://www.w3.org/2001/XMLSchema"`. For XML DTD [[XML 1.0](http://www.w3.org/TR/2000/REC-xml-20001006/)],
- * applications must use the value
- * `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
- * are outside the scope of the W3C and therefore should recommend an
- * absolute URI in order to use this method.
- * @return The newly created `LSParser` object. This
- * `LSParser` is either synchronous or asynchronous
- * depending on the value of the `mode` argument.
- *

Note: By default, the newly created `LSParser`
- * does not contain a `DOMErrorHandler`, i.e. the value of
- * the "[parameter-error-handler](http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler)
- * `error-handler`" configuration parameter is `null`. However, implementations
- * may provide a default error handler at creation time. In that case,
- * the initial value of the `"error-handler"` configuration
- * parameter on the new created `LSParser` contains a
- * reference to the default error handler.
- * @exception DOMException
- * NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
- * not supported.

Found in path(s):

`/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java`

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jar/org/apache/xerces/dom/DOMImplementationListImpl.java
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*/
/**
* used to check the 3 constraints against each complex type
* (should be each model group):
* Unique Particle Attribution, Particle Derivation (Restriction),
* Element Declarations Consistent.
*/

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSConstraints.java
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jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/ShadowedSymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLImgElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLOptgroupElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLImgElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLTimerElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSParticle.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLWmlElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/xs/StringList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLTimerElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDComplexTypeTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLIElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/SAXMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLMessages.properties
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jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties
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```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSDFACM.java
```

1.797 css-tree 1.0.0-alpha.37

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1.798 @jest/globals 25.5.2

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1.799 woodstox-core-asl 4.1.2

1.800 eslint-config-standard-jsx 4.0.2

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1.801 system-reflection-metadata 1.6.0

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/* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.11, January 15th, 2017

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By Sean Eron Anderson
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1.802 randomatic 3.1.1

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1.803 bn.js 5.2.0

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1.805 forever-agent 0.6.1

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1.806 emojis-list 3.0.0

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1.807 boost 1.66, 1.73.0

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1.808 is-equal-shallow 0.1.3

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1.809 asm 2.13.2

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1.810 jetty 9.4.26.v20200117

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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.811 aop-alliance 1.0

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1.812 node-glob 7.2.0

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1.813 json-java 20070829

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* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONWriter.java

* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONStringer.java

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- * /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/HTTP.java
- * /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/XMLTokener.java
- * /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONTokener.java
- * /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONArray.java
- * /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONObject.java
- * /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/CookieList.java
- * /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/XML.java
- * /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/HTTPTokener.java
- * /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/Cookie.java
- * /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/CDL.java

1.814 protobuf-java 3.19.6

1.814.1 Available under license :

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Manifest-Version: 1.0

Automatic-Module-Name: com.google.protobuf

Bnd-LastModified: 1664485905970

Build-Jdk: 1.8.0_181-google-v7

Built-By: mkruskal

Bundle-Description: Core Protocol Buffers library. Protocol Buffers are a way of encoding structured data in an efficient yet extensible format.

Bundle-DocURL: <https://developers.google.com/protocol-buffers/>

Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>

Bundle-ManifestVersion: 2

Bundle-Name: Protocol Buffers [Core]

Bundle-SymbolicName: com.google.protobuf

Bundle-Version: 3.19.6

Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf;version="3.19.6"
Import-Package: sun.misc;resolution:=optional,com.google.protobuf;version="[3.19,4)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

Found in path(s):

* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/META-INF/MANIFEST.MF
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Found in path(s):

* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/timestamp.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/struct.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/wrappers.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/type.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/empty.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/any.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/descriptor.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/duration.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/field_mask.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/compiler/plugin.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/source_context.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/api.proto

1.815 shindig-common 2.0.2

1.815.1 Available under license :

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1.816 commons-beanutils-core 1.8.3

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1.817 mini-css-extract-plugin 1.6.2

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1.818 dagger 2.4

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* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/MapKey.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/MapFactory.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Component.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/InstanceFactory.java
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* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/MapProviderFactory.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Collections.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/SetFactory.java
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- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Multibindings.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/package-info.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntKey.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/StringKey.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/LongKey.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Beta.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/ClassKey.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Subcomponent.java

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- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Reusable.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/ProviderOfLazy.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Binds.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Preconditions.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/DoubleCheck.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/ElementsIntoSet.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntoMap.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/package-info.java
- * /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntoSet.java

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1.819 tomcat 9.0.69

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1.822 react-from-facebook 16.14.0

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1.823 array-prototype-flatmap 1.2.5

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1.824 asyncio 0.0.0.0

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1.825 babel-plugin-syntax-class-properties

6.13.0

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1.826 spdx-license-ids 3.0.10

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Installation

[Download JSON directly](https://raw.githubusercontent.com/shinmn/spdx-license-ids/main/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

...

```
npm install spdx-license-ids
```

...

[Node.js](https://nodejs.org/) API

```
### require('spdx-license-ids')
```

Type: `string[]`

All license IDs except for the currently deprecated ones.

```
```javascript
```

```
const ids = require('spdx-license-ids');
```

```
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
```

```
ids.includes('BSD-3-Clause'); //=> true
```

```
ids.includes('CC-BY-1.0'); //=> true
```

```
ids.includes('GPL-3.0'); //=> false
```

```
...
```

```
require('spdx-license-ids/deprecated')
```

```
Type: `string[]`
```

Deprecated license IDs.

```
```javascript
```

```
const deprecatedIds = require('spdx-license-ids/deprecated');
```

```
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]
```

```
deprecatedIds.includes('BSD-3-Clause'); //=> false
```

```
deprecatedIds.includes('CC-BY-1.0'); //=> false
```

```
deprecatedIds.includes('GPL-3.0'); //=> true
```

```
...
```

```
## License
```

```
[Creative Commons Zero v1.0 Universal](https://creativecommons.org/publicdomain/zero/1.0/deed)
```

1.827 visionmedia-batch 0.6.1

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1.828 apache-jsp 9.4.26.v20200117

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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.829 babel-helper-builder-react-jsx 6.26.0

1.829.1 Available under license :

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1.830 character-reference-invalid 1.1.4

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1.831 system-data-oledb 4.0

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%% winjs version 4.4.0 (<https://github.com/winjs/winjs>)

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WinJS

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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1.833 eslint-utils v2.1.0

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1.834 on-headers 1.0.2

1.835 pn 1.1.0

1.835.1 Available under license :

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```
# pn
![NPM][NPM1]][NPM2]

![Build Status][1]][2]
```

The `pn`` library gives you the Promise-using node standard library you've always dreamed of. Think "Promised Node" when saying it.

Just about every node standard library method that takes a callback will now return a `Promise`` iff no callback is supplied. But existing code that passes callbacks will still work fine --- and fast: No unnecessary `Promise`s` are created if you supply a callback.

The wrappers are generated automatically by a script, with a table to handle exceptions and odd cases. See below for more details.

```
## Installation
...

npm install pn
...

## Usage
...

var fs = require('pn/fs');
fs.writeFile('foo', 'bar', 'utf-8').then(function() { console.log('done'); });
// But you can use callbacks, too -- existing code won't break.
fs.writeFile('foo', 'bat', 'utf-8', function(err) { console.log('yay'); });
...


```

This library uses node native promises (ie `global.Promise``) by default, and thus works with node `>= 0.11`.

You can use `[`core-js`]`(<https://www.npmjs.org/package/core-js>) or `[`es6-shim`]`(<https://www.npmjs.org/package/es6-shim>) to add ES6 Promises to earlier versions of node, for example:

```
...

require('es6-shim');
var fs = require('pn/fs');
```

...

Just be sure that `es6-shim` is loaded before the `pn` package in that case.

You might also want to look into packages like `[prfun]` (<https://www.npmjs.org/package/prfun>) which add some helpers to make working with native promises much more fun.

In particular, the `Promise#done` method is very useful when debugging, at least until v8's native Promise debugging capabilities are completed.

Custom Promise types

You can also specify a custom `Promise` type to use, as follows:

...

```
var MyPromise = require('prfun'); // Use prfun's Promises, for example.
require('pn/_promise')(MyPromise); // This only needs to be done once.
```

...

Exceptions and odd cases

The wrappers are automatically generated by `scripts/generate.js`; there is a table in that file which specifies all the odd cases.

In general: if the node API has a callback which takes multiple value arguments, the `Promise` returned will be an object with named fields corresponding to the different values. If the node API takes a callback *and* returns a value, `pn` will return the original value with a nonenumerable field named `promise` corresponding to the callback. Combining these two cases:

...

```
var child_process = require('pn/child_process');
var cp = child_process.execFile('true');
console.log('pid', cp.pid);
cp.promise.then(function(result) {
  console.log('stdout: ', result.stdout);
  console.log('stderr: ', result.stderr);
});
```

...

* `child_process`: The `exec` and `execFile` methods promise a object with fields named `stdout` and `stderr`. They return a `ChildProcess` object with a nonenumerable field named `promise` corresponding to the callback.

* `crypto`: The `randomBytes` and `pseudoRandomBytes` methods are now always asynchronous, returning a `Promise` if no callback

is supplied. Use the new `randomBytesSync` and `pseudoRandomBytesSync` methods if you want synchronous computation. *This is backwards incompatible with existing node code.*

* `dns`: The `lookupService` method promises an object with fields named `hostname` and `service`.

* `fs`: The `exists` method doesn't pass an error to its callback.

The promised version will never reject. The `write` method promises an object with fields named `written` and `data`. The `read` method promises an object with fields named `read` and `data`.

* `http`, `https`: The `request` and `get` methods return a `ClientRequest` object with a nonenumerable field named `promise`, which will resolve to an `IncomingMessage` object.

* `process`: You can defer computation to the next tick with `require('pn/process').nextTick().then(function(){...})`

* `tls`: The `connect` and `createServer` return objects with a nonenumerable field named `promise`.

There are a few object methods which are not promisified by this package:

* `domain`: `Domain#bind`, `Domain#intercept`

* `http`, `https`: `ClientRequest#setTimeout`, `IncomingMessage#setTimeout`, `Server#setTimeout`, `ServerResponse#setTimeout`, `Server#listen`, `Server#close`

* `net`: `Server#listen`, `Server#close`, `Server#getConnections`, `Socket#write`, `Socket#setTimeout`

* `readline`: `Interface#question`

* `stream`: `Writable#write`, `Writable#end`

* `dgram`: `Socket#send`, `Socket#bind`.

Related packages

Here are some other packages with similar aims:

* [`promised-node`](<https://www.npmjs.org/package/promised-node>)

* [`then-fs`](<https://www.npmjs.org/package/then-fs>)

* [`final-fs`](<https://www.npmjs.org/package/final-fs>)

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[NPM1]: <https://nodei.co/npm/pn.png>

[NPM2]: <https://nodei.co/npm/pn/>

[1]: <https://travis-ci.org/cscott/node-pn.svg>

[2]: <https://travis-ci.org/cscott/node-pn>

Found in path(s):

* /opt/cola/permits/1145697868_1616327594.23/0/pn-1-1-0-4-tgz/package/README.md

1.836 normalize 0.3.1

1.836.1 Available under license :

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1.837 extend 3.0.2

1.838 babel-types 6.26.0

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1.839 wrap-ansi 2.1.0

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1.840 cliui 3.2.0

1.841 prompts 2.4.1

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1.842 watchpack 2.0.1

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1.843 jersey-bundle 1.19.4

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1.846 commons-compress 1.20

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1.847 css-has-pseudo 0.10.0

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1.848 xpath 0.0.32

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1.849 system-reflection-context 4.0.0.0

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1.851 kotlin 1.6.20

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```

Found in path(s):

```
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/Nothing.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/Throwable.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/CharSequence.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/Iterator.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-
jar/kotlin/reflect/KDeclarationContainer.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/Comparable.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/reflect/KParameter.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/Any.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-
jar/kotlin/annotation/Annotations.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/Number.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/Function.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/Char.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/Boolean.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/Unit.kt
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Found in path(s):

* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/String.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/Library.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/reflect/KVisibility.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/ArrayIntrinsics.kt
* /opt/cola/permits/1316146529_1672939813.606877/0/kotlin-stdlib-1-6-20-sources-jar/kotlin/internal/InternalAnnotations.kt

1.852 @webassemblyjs/wasm-gen 1.9.0

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1.853 jest-console 25.5.0

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1.854 jetty-jsp 7.5.3.v20111011

1.855 jakarta.xml.bind.api 2.3.3

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1.856 nice-try 1.0.5

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1.857 metrics-httpclient 4.0.2

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1.858 apache-commons-lang 3.10

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1.859 strip-bom 3.0.0

1.860 astral-regex 2.0.0

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1.861 readable-stream v2.3.7

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1.862 lodash.clonedep 4.5.0

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1.863 commons-http-client 3.1

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1.866 log4j-api 2.19.0

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1.873 language-tags 1.0.5

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IANA Language Tags for JavaScript

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Based on [BCP 47](http://tools.ietf.org/html/bcp47) ([RFC 5646](http://tools.ietf.org/html/rfc5646)) and the latest [IANA language subtag registry](http://www.iana.org/assignments/language-subtag-registry).

This project will be updated as the standards change.

JSON data

See the [language-subtag-registry](https://github.com/mattcg/language-subtag-registry) project for the underlying JSON data.

API

```
```js
var tags = require('language-tags')
```
```

Note that all lookups and checks for tags and subtags are case insensitive. For formatting according to common conventions, see `tag.format``.

tags(tag)

Check whether a hyphen-separated tag is valid and well-formed. Always returns a `Tag`, which can be checked using the `valid` method.

```
### tags.check(tag) ###
```

Shortcut for `tags(tag).valid()`. Return `true` if the tag is valid, `false` otherwise. For meaningful error output see `tag.errors()`.

```
### tags.subtags(subtag), tags.subtags(subtags) ###
```

Look up one or more subtags. Returns an array of `Subtag` objects. Returns an empty array if all of the subtags are non-existent.

Calling `tags.subtags('mt')` will return an array with two `Subtag` objects: one for Malta (the 'region' type subtag) and one for Maltese (the 'language' type subtag).

```
...
```

```
> tags.subtags('mt');  
[Subtag, Subtag]  
> tags.subtags('bumblebee');  
[]  
...
```

To get or check a single subtag by type use `tags.language(subtag)`, `tags.region(subtag)` or `tags.type(subtag, type)`.

```
### tags.filter(subtags) ###
```

The opposite of `tags.subtags(subtags)`. Returns an array of codes that are not registered subtags, otherwise returns an empty array.

```
...
```

```
> tags.filter(['en', 'Aargh']);  
['Aargh']  
...
```

```
### tags.search(description, [all]) ###
```

Search for tags and subtags by description. Supports either a RegExp object or a string for `description`. Returns an array of `Subtag` and `Tag` objects or an empty array if no results were found.

Note that `Tag` objects in the results represent 'grandfathered' or 'redundant' tags. These are excluded by default. Set the `all` parameter to `true` to include them.

Search is case-insensitive if `description` is a string.

```
### tags.languages(macrolanguage) ###
```

Returns an array of `Subtag` objects representing all the 'language' type subtags belonging to the given 'macrolanguage' type subtag.

Throws an error if `macrolanguage` is not a macrolanguage.

...

```
> tags.languages('zh');  
[Subtag, Subtag...]  
> tags.languages('en');  
Error: 'en' is not a valid macrolanguage.
```

...

tags.language(subtag)

Convenience method to get a single 'language' type subtag. Can be used to validate an input value as a language subtag. Returns a `Subtag` object or `null`.

...

```
> tags.language('en');  
Subtag  
> tags.language('us');  
null
```

...

tags.region(subtag)

As above, but with 'region' type subtags.

...

```
> tags.region('mt');  
Subtag  
> tags.region('en');  
null
```

...

tags.type(subtag, type)

Get a subtag by type. Returns the subtag matching `type` as a `Subtag` object otherwise returns `null`.

A `type` consists of one of the following strings: 'language', 'extlang', 'script', 'region' or 'variant'. To get a 'grandfathered' or 'redundant' type tag use `tags(tag)`.

...

```
> tags.type('zh', 'macrolanguage');  
Subtag  
> tags.type('zh', 'script');  
null
```

...

```
### tags.date() ###
```

Returns the file date for the underlying data, as a string.

```
...
```

```
> tags.date();
```

```
'2004-06-28'
```

```
...
```

```
### Subtag ###
```

```
#### subtag.type() ####
```

Get the subtag type (either 'language', 'extlang', 'script', 'region' or 'variant'). See [RFC 5646 section 2.2](<http://tools.ietf.org/html/rfc5646#section-2.2>) for type definitions.

```
#### subtag.descriptions() ####
```

Returns an array of description strings (a subtag may have more than one description).

```
...
```

```
> tags.language('ro').descriptions();
```

```
['Romanian', 'Moldavian', 'Moldovan']
```

```
...
```

```
#### subtag.preferred() ####
```

Returns a preferred subtag as a `Subtag` object if the subtag is deprecated. For example, `ro` is preferred over deprecated `mo`.

```
...
```

```
> tags.language('mo').preferred();
```

```
Subtag
```

```
...
```

```
#### subtag.script() ####
```

For subtags of type 'language' or 'extlang', returns a `Subtag` object representing the language's default script. See [RFC 5646 section 3.1.9](<http://tools.ietf.org/html/rfc5646#section-3.1.9>) for a definition of 'Suppress-Script'.

```
#### subtag.scope() ####
```

Returns the subtag scope as a string, or `null` if the subtag has no scope.

Tip: if the subtag represents a macrolanguage, you can use `tags.languages(macrolanguage)` to get a list of all the macrolanguage's individual languages.

...

```
> tags.language('zh').scope();  
'macrolanguage'  
> tags.language('nah').scope();  
'collection'  
...
```

subtag.deprecated()

Returns a date string reflecting the deprecation date if the subtag is deprecated, otherwise returns `null`.

...

```
> tags.language('ja').deprecated();  
'2008-11-22'  
...
```

subtag.added()

Returns a date string reflecting the date the subtag was added to the registry.

...

```
> tags.language('ja').added();  
'2005-10-16'  
...
```

subtag.comments()

Returns an array of comments, if any, otherwise returns an empty array.

...

```
> tags.language('nmf').comments();  
['see ntx']  
...
```

subtag.format()

Return the subtag code formatted according to the case conventions defined in [RFC 5646 section 2.1.1](<http://tools.ietf.org/html/rfc5646#section-2.1.1>).

- language codes are made lowercase ('mn' for Mongolian)
- script codes are made lowercase with the initial letter capitalized ('Cyril' for Cyrillic)
- country codes are capitalized ('MN' for Mongolia)

Tag

tag.preferred()

If the tag is listed as 'deprecated' or 'redundant' it might have a preferred value. This method returns a `Tag` object if

so.

...

```
> tags('zh-cmn-Hant').preferred();
```

Tag

...

tag.type()

Returns `grandfathered` if the tag is grandfathered, `redundant` if the tag is redundant, and `tag` if neither. For a definition of grandfathered and redundant tags, see [RFC 5646 section 2.2.8](http://tools.ietf.org/html/rfc5646#section-2.2.8).

tag.subtags()

Returns an array of subtags making up the tag, as `Subtag` objects.

tag.language(), tag.region(), tag.script()

Shortcuts for `tag.find('language')`, `tag.find('region')` and `tag.find('script')`.

tag.find(type)

Find a subtag of the given type from those making up the tag.

tag.valid()

Returns `true` if the tag is valid, `false` otherwise.

tag.errors()

Returns an array of `Error` objects if the tag is invalid. The `message` property of each is readable and helpful enough for UI output. The `code` property can be checked against the `Tag.ERR_*` constants. Each error will also have either a `subtag` or `tag` property with the code of the offending tag.

tag.format()

Format a tag according to the case conventions defined in [RFC 5646 section 2.1.1](http://tools.ietf.org/html/rfc5646#section-2.1.1).

...

```
> tags('en-gb').format();
```

'en-GB'

...

tag.deprecated()

For grandfathered or redundant tags, returns a date string reflecting the deprecation date if the tag is deprecated.

...

```
> tags('zh-cmn-Hant').deprecated();  
'2009-07-29'
```

...

tag.added()

For grandfathered or redundant tags, returns a date string reflecting the date the tag was added to the registry.

tag.descriptions()

Returns an array of tag descriptions for grandfathered or redundant tags, otherwise returns an empty array.

Resources

- [Python version by the Flanders Heritage Agency](https://github.com/OnroerendErfgoed/language-tags)
- [Language Subtag Lookup tool by Richard Ishida](http://rishida.net/utls/subtags/)
- [W3C Internationalization Checker](http://validator.w3.org/i18n-checker/)
- [RFC 5646](http://tools.ietf.org/html/rfc5646)

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078337192_1597295049.39/0/mattcg-language-tags-v1-0-5-0-g5ae08f9-tar-  
gz/mattcg-language-tags-5ae08f9/README.md
```

1.874 csso 2.3.2

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1.875 create-ecdh 4.0.4

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1.876 servlet-api 3.1.0

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1.882 geronimoj2eemanagement 1.0.1

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1.884 jackson-dataformat-cbor 2.13.2

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1.885 opn v5.5.0

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1.886 feign-jackson 10.7.4

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* /opt/ws_local/PERMITS_SQL/1046144844_1589880083.52/0/feign-jackson-10-7-4-sources-jar/feign/jackson/JacksonIteratorDecoder.java

1.887 commons-discovery 0.5

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1.888 handle-thing v2.0.1

1.888.1 Available under license :

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Handle Thing

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> Wrap Streams2 instance into a HandleWrap. The right thing when you need it

Usage

Examples

`soonâ,,`

API

`soonâ,,`

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* /opt/ws_local/PERMITS_SQL/1073752662_1595443718.62/0/spdy-http2-handle-thing-v2-0-1-0-gcc8c5c9-tar-gz/spdy-http2-handle-thing-115c789/README.md

1.889 jest-regex-util 25.2.6

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1.890 md5.js 1.3.5

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1.891 yallist 3.1.1

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1.892 netty-codec 4.1.78.Final

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* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/compression/Crc32c.java
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* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/DatagramPacketEncoder.java
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* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-

jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/DatagramPacketDecoder.java
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 */
/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *
 * <p>
 * { @link LengthFieldBasedFrameDecoder } has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 *
 * <pre>
 * <b>lengthFieldOffset</b> = <b>0</b>
 * <b>lengthFieldLength</b> = <b>2</b>
 * lengthAdjustment = 0
 * initialBytesToStrip = 0 (= do not strip header)
 *
 */
```

```

* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |   | 0x000C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* { @link ByteBuf#readableBytes() }, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" |   | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+

```

```

* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |    | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |    | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended

```

```

* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>

```

```

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>

```

```

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.

```

```

* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>

```

```

* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>

```

```

* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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*/
/*
* Written by Robert Harder and released to the public domain, as explained at
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*/
/**
* Utility class for { @link ByteBuf } that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

Found in path(s):

```
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/base64/Base64.java
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* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
```

jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/json/package-info.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-

jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
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/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
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* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
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* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
```

jar/io/netty/handler/codec/Delimiters.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/base64/package-info.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/DecoderException.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-

jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/EncoderException.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/package-info.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/string/StringDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/package-info.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-

jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/MessageAggregator.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/bytes/package-info.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibDecoder.java
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jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
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jar/io/netty/handler/codec/xml/package-info.java

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* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java

* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java

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* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/UnsupportedValueConverter.java

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* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/compression/GzipOptions.java
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* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/compression/ZstdConstants.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/compression/Brotli.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/compression/CompressionOptions.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
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* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/compression/ZstdOptions.java

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* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/CharSequenceValueConverter.java

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* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1350827689_1656063912.744552/0/netty-codec-4-1-78-final-sources-1-jar/io/netty/handler/codec/EmptyHeaders.java

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1.893 whatwg-fetch 2.0.4

1.894 opentelemetry.api 0.0.0.0

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1.895 duplexify 3.7.1

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<http://www.cl.cam.ac.uk/~mr10/Bench/README>

Please feel free to re-implement this benchmark in any language you

choose. I would be happy to incorporate such translations into this distribution together with their timing/size results.

Martin Richards

23 February 2007

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```
<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
```

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```
new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
  new XElement("p", "This work may be freely copied and distributed worldwide.")
```

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This is a port of the SciMark2a Java Benchmark to C# by
Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

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<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile>\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

<!--

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file
in the dotnet home directory.

-->

<ItemGroup>

<TpnRepo Include="dotnet/runtime" />

<TpnRepo Include="dotnet/aspnetcore" />

<TpnRepo Include="dotnet/installer" />

```

<TpnRepo Include="dotnet/roslyn-analyzers" />
<TpnRepo Include="dotnet/templating" />
<TpnRepo Include="dotnet/winforms" />
<TpnRepo Include="dotnet/wpf" />

<!--
Additional repos that should be included but don't have any third-party-notices files:
dotnet/efcore
dotnet/emsdk
dotnet/extensions
dotnet/icu
dotnet/sdk
dotnet/windowsdesktop
dotnet/linker
-->

<TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />

<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>

<RegenerateThirdPartyNotices
TpnFile="$(TpnFile)"
PotentialTpnPaths="@ (PotentialTpnPath)"
TpnRepos="@ (TpnRepo)" />

<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>

```

</Project>

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https://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 27th, 2022

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jloup@gzip.org madler@alumni.caltech.edu

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By Sean Eron Anderson
seander@cs.stanford.edu

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1.897 error_prone_annotations 2.3.4

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Found in path(s):

```
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
```

jar/com/google/errorprone/annotations/SuppressPackageLocation.java

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* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java

* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CheckReturnValue.java

* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/DoNotCall.java

* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

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* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-

```
jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/FormatString.java
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Found in path(s):

```
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
jar/com/google/errorprone/annotations/NoAllocation.java
```

1.898 zlib 1.2.13

1.898.1 Available under license :

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1.899 jetty-util 9.4.26.v20200117

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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.900 underscore-js 1.8.3

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1.901 bootstrap-twitter 2.3.2

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```
/*!  
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*/
```

Found in path(s):

* /opt/cola/permits/1034617816_1621835104.88/0/bootstrap-234-zip/bootstrap/js/bootstrap.min.js

No license file was found, but licenses were detected in source scan.

```
/* =====  
* bootstrap-transition.js v2.3.2  
* http://getbootstrap.com/2.3.2/javascript.html#transitions  
* =====  
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* ===== */
```

Found in path(s):

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* /opt/cola/permits/1034617816_1621835104.88/0/bootstrap-234-zip/bootstrap/js/bootstrap.js
No license file was found, but licenses were detected in source scan.
```

```
/*!
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*
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*
* Designed and built with all the love in the world by @mdo and @fat.
*/
```

Found in path(s):

```
* /opt/cola/permits/1034617816_1621835104.88/0/bootstrap-234-zip/bootstrap/css/bootstrap.css
* /opt/cola/permits/1034617816_1621835104.88/0/bootstrap-234-zip/bootstrap/css/bootstrap.min.css
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* Designed and built with all the love in the world by @mdo and @fat.
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```

Found in path(s):

```
* /opt/cola/permits/1034617816_1621835104.88/0/bootstrap-234-zip/bootstrap/css/bootstrap-responsive.min.css
* /opt/cola/permits/1034617816_1621835104.88/0/bootstrap-234-zip/bootstrap/css/bootstrap-responsive.css
```

1.902 babel-plugin-transform-strict-mode

v6.24.1

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1.903 cssesc 3.0.0

1.904 postcss-color-gray 5.0.0

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1.908 sanselan 0.97-incubator

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1.909 activemq-openwire-legacy 5.16.1

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1.910 activation 1.1

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Found in path(s):

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*/opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/javax/activation/DataContentHandlerFactory.java
```

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```
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*/
/*
* @(#)URLDataSource.java 1.10 05/11/16
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/javax/activation/URLDataSource.java
```

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*/
/*
```

```
* @(#)MailcapCommandMap.java 1.40 05/11/16
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/javax/activation/MailcapCommandMap.java
```

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*/
/*
* @(#)MimeTypeParameterList.java 1.11 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/javax/activation/MimeTypeParameterList.java
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```

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*/
```



```
/*
 * @(#)CommandMap.java 1.19 05/11/16
 *
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 */
```

Found in path(s):

```
*/opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/javax/activation/CommandMap.java
```

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 * [name of copyright owner]
 */
```

```
/*
 * @(#)MimeTypeParseException.java 1.6 05/11/16
 *
 * Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
 */
```

Found in path(s):

```
*/opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/javax/activation/MimeTypeParseException.java
```

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*/
/*
* @(#)DataHandler.java 1.39 05/11/16
*
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*/

```

Found in path(s):

```

* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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```

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*/
/*
* @(#)UnsupportedDataException.java 1.9 05/11/16
*

```

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*/

Found in path(s):

* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/UnsupportedDataException.java

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*/

/*

* @(#)FileTypeMap.java 1.8 05/11/16

*

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*/

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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/FileTypeMap.java

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/*
* @(#)MimeType.java 1.19 05/11/16
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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```

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/*
* @(#)MimeTypeEntry.java 1.4 05/11/16
*
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*/
```

Found in path(s):

* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/registries/MimeTypeEntry.java

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/*

* @(#)TextViewer.java 1.9 05/11/16

*

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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/viewers/TextViewer.java

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/*
* @(#)FileDataSource.java 1.9 05/11/16
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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/*
* @(#)LogSupport.java 1.4 05/11/16
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/com/sun/activation/registries/LogSupport.java
```

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/*
 * @(#)DataContentHandler.java 1.16 05/11/16
 *
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 */
```

Found in path(s):

```
*/opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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```

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/*
* @(#)ActivationDataFlavor.java 1.14 05/11/16
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/javax/activation/ActivationDataFlavor.java
```

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/*
* @(#)MimeTypeFile.java 1.8 05/11/16
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/com/sun/activation/registries/MimeTypeFile.java
```

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```



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/*
* @(#)TextEditor.java 1.8 05/11/16
*
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*/
```

Found in path(s):

```
*/opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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```

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```
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/*
* @(#)MailcapFile.java 1.23 05/11/16
*
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*/
```

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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/com/sun/activation/registries/MailcapFile.java
```

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```
*/
/*
* @(#)MailcapTokenizer.java 1.6 05/11/16
*
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```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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@(#)package.html 1.1 05/11/16

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-->

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*/

/*

* @(#)MailcapParseException.java 1.4 05/11/16
*
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*/

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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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/*

* @(#)MimetypesFileTypeMap.java 1.17 05/11/16
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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/javax/activation/MimetypesFileTypeMap.java

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* @(#)DataSource.java 1.11 05/11/16
*
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*/
```

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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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```

*/

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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/viewers/ImageViewer.java

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*/

/*

* @(#)CommandObject.java 1.9 05/11/16

*

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*/

Found in path(s):

* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/CommandObject.java

1.911 path-to-regexp 0.1.7

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1.912 jetty-http 9.4.48.v20220622

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.913 buffer-crc32 0.2.13

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1.914 enhanced-resolve 4.5.0

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1.915 jackson-xc 2.13.1

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1.916 watchpack v1.7.5

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1.917 is-fullwidth-code-point 1.0.0

1.918 jackson 1.9.13

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1.919 http-parser-js 0.5.3

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- tests/iojs/test-http-parser-durability.js

This file is from <https://github.com/mscedex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js> with modifications by Jan Schr (jscissr).

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"""

- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
tests/test.py
tests/utils.py

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1.920 jre 25.352

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1.922 os-tmpdir 1.0.2

1.923 annotations 1.3.9

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1.924 sax 1.2.4

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1.925 system-componentmodel-composition-registration 4.0.0.0

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1.926 browserify-cipher 1.0.1

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1.927 multimatch v5.0.0

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1.928 builtin-modules 1.1.1

1.929 autoprefixer 9.8.8

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1.930 jackson-jaxrs-base 2.13.1

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Found in path(s):

* /opt/cola/permits/1368298584_1658301201.3646705/0/simpleclient-dropwizard-0-15-0-sources-jar/META-INF/maven/io.prometheus/simpleclient_dropwizard/pom.xml

1.933 javassist 3.25.0-GA

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 */
```

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```
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtPrimitiveType.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/MethodInfo.java
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jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/Executor.java
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jar/javassist/ByteArrayClassPath.java
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jar/javassist/util/proxy/DefineClassHelper.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/rmi/AppletServer.java
```

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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/StackMapTable.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/NotFoundException.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/DeprecatedAttribute.java
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- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/RemoteRef.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/Proxy.java
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Found in path(s):

* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/DoubleMemberValue.java

1.934 saaj 1.3.19

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depot

layout_version 1.0

vendor

tag SUN

title Sun Microsystems, Inc.

description "Java Enterprise System"

```
end

product
tag sun-saaj
title SOAP With Attachment API for Java
description "SOAP With Attachment API for Java 1.3"
copyright "Copyright 2005 Sun Microsystems, Inc. All rights reserved. Use is subject to license term"
revision @saaj.version@
number @datestamp@
architecture HP-UX_B.11_32/64
vendor_tag SUN
machine_type *
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os_release *
os_version *
is_locatable true
directory /

fileset
tag sun-saaj

prerequisite sun-jaxp
prerequisite sun-jaf

file -m 0644 -o root -g root @libdir@/saaj-api.jar /opt/sun/share/lib/saaj-api.jar
file -m 0644 -o root -g root @libdir@/saaj-impl.jar /opt/sun/share/lib/saaj-impl.jar
end
end
```

1.935 html-minifier-terser 5.1.1

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1.936 automation 1.11-8

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* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/ShuffleOperations.java

* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/Datatypes.java

* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/RegExp.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/State.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/AutomatonProvider.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/TransitionComparator.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/MinimizationOperations.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/BasicOperations.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/Transition.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/StatePair.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/RunAutomaton.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/SpecialOperations.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/BasicAutomata.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/DatatypesAutomatonProvider.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/Automaton.java

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* dk.brics.automaton - AutomatonMatcher

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* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-
jar/dk/brics/automaton/AutomatonMatcher.java

1.937 strip-final-newline 2.0.0

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1.938 acorn-globals 4.3.4

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1.939 system-security-accesscontrol 4.5.0

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http://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.11, January 15th, 2017

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By Sean Eron Anderson
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Martin Richards

23 February 2007

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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George Marsaglia

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    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
```

```
<Compile Include="Program.cs" />
<Compile Include="../../ServerContracts/Server.CoClasses.cs" />
<Compile Include="../../ServerContracts/Server.Contracts.cs" />
<Compile Include="../../ServerContracts/ServerGuids.cs" />
</ItemGroup>
<ItemGroup>
  <ProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>
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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.947 css-selector-tokenizer 0.7.3

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2000-05-05

1.951 es6-iterator 2.0.3

1.952 compression 1.7.4

1.953 core-js-pure 3.18.2

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1.954 promise-polyfill 7.1.2

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1.955 jest-changed-files 25.5.0

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1.956 postcss-scss 1.0.6

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1.957 presentationframework 4.0.0.0

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Martin Richards
23 February 2007

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

By Sean Eron Anderson
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738>

<Project Sdk="Microsoft.NET.Sdk">

<PropertyGroup>

<OutputType>Exe</OutputType>

<ApplicationManifest>App.manifest</ApplicationManifest>

```
</PropertyGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
  <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
  <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
</ItemGroup>
<ItemGroup>
  <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>
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```

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<https://www.simple-talk.com/dotnet/.net-framework/the-dangers-of-the-large-object-heap/>

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<https://github.com/santoshshahoo/nbench> (mirror of the same code)

/*

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** Rick Grehan, BYTE Magazine

**

** Create:

** Revision: 3/95

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1.958 node-http-signature 1.2.0

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1.961 libjpeg 9c

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 *
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 *
```

- * This file contains tables and miscellaneous utility routines needed
- * for both compression and decompression.
- * Note we prefix all global names with "j" to minimize conflicts with
- * a surrounding application.
- */

Found in path(s):

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*

* This file contains the compression preprocessing controller.

* This controller manages the color conversion, downsampling,

* and edge expansion steps.

*

* Most of the complexity here is associated with buffering input rows

* as required by the downsampler. See the comments at the head of

* jcsample.c for the downsampler's needs.

*/

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/*

* rdbmp.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2009-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to read input images in Microsoft "BMP"

* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).

* Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or

* 4-bit (feeding such low-depth images into JPEG would be silly anyway).

* Also, we don't support RLE-compressed files.

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume input from

* an ordinary stdio stream. They further assume that reading begins

* at the start of the file; start_input may need work if the

* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*

* ckconfig.c

*

* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/ckconfig.c
No license file was found, but licenses were detected in source scan.

/*

* jchuff.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*
* We do not support output suspension for the progressive JPEG mode, since
* the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jchuff.c
No license file was found, but licenses were detected in source scan.

```
/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */
```

Found in path(s):

```
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcapistd.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jdmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */
```

Found in path(s):

```
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdmaster.c
```

No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be

adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.

Try doing

```
./configure
```

```
make
```

```
make test
```

If that doesn't complain, do

```
make install
```

(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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BEFORE YOU START

=====

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the

self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE

=====

To configure the IJG code for your system, you need to create two files:

- * `jconfig.h`: contains values for system-dependent #define symbols.
- * `Makefile`: controls the compilation process.

(On a non-Unix machine, you may create "project files" or some other substitute for a `Makefile`. `jconfig.h` is needed in any environment.)

We provide three different ways to generate these files:

- * On a Unix system, you can just run the "configure" script.
- * We provide sample `jconfig` files and `makefiles` for popular machines; if your machine matches one of the samples, just copy the right sample files to `jconfig.h` and `Makefile`.
- * If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script

If you are on a Unix machine, you can just type

```
./configure
```

and let the `configure` script construct appropriate configuration files.

If you're using "csh" on an old version of System V, you might need to type

```
sh configure
```

instead to prevent `csh` from trying to execute `configure` itself.

Expect `configure` to run for a few minutes, particularly on slower machines;

it works by compiling a series of test programs.

`Configure` was created with GNU `Autoconf` and it follows the usual conventions for GNU `configure` scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to `configure`:

- * `Configure` will build both static and shared libraries, if possible.

If you want to build `libjpeg` only as a static library, say

```
./configure --disable-shared
```

If you want to build `libjpeg` only as a shared library, say

```
./configure --disable-static
```

`Configure` uses GNU `libtool` to take care of system-dependent shared library building methods.

- * `Configure` will use `gcc` (GNU C compiler) if it's available, otherwise `cc`.

To force a particular compiler to be selected, use the CC option, for example

```
./configure CC='cc'
```

The same method can be used to include any unusual compiler switches.

For example, on HP-UX you probably want to say

```
./configure CC='cc -Aa'
```

to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.

You can override this by saying, for example,

```
./configure CFLAGS='-O2'
```

if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option "--enable-maxmem=N" where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manx jconfig.manx Amiga, Manx Aztec C

makefile.sas jconfig.sas Amiga, SAS C

makeproj.mac jconfig.mac Apple Macintosh, Metrowerks CodeWarrior

mak*jpeg.st jconfig.st Atari ST/STE/TT, Pure C or Turbo C

makefile.bcc jconfig.bcc MS-DOS or OS/2, Borland C

makefile.dj jconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)

makefile.mc6 jconfig.mc6 MS-DOS, Microsoft C (16-bit only)

makefile.wat jconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C

makefile.vc jconfig.vc Windows, MS Visual C++

makefile.vs jconfig.vc Windows, MS Visual C++ 6 Developer Studio

make*.vc6

makefile.vs jconfig.vc Windows, Visual Studio 2017 (v15)

make*.v15
makefile.b32 jconfig.vc Windows, Borland C++ 32-bit (bcc32)
makefile.mms jconfig.vms Digital VMS, with MMS software
makefile.vms jconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression,

decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; `makefile.vms` is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style

These programs can use a Unix-like command line style which supports redirection and piping, like this:

```
cjpeg inputfile >outputfile
```

```
cjpeg <inputfile >outputfile
```

```
source program | cjpeg >outputfile
```

The simpler "two file" command line style is just

```
cjpeg inputfile outputfile
```

You may prefer the two-file style, particularly if you don't have pipes.

You **MUST** use two-file style on any system that doesn't cope well with binary data fed through `stdin/stdout`; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard `fdopen()` library routine or a Microsoft-compatible `setmode()` routine, you can safely use the Unix command line style, by defining `USE_FDOPEN` or `USE_SETMODE` respectively.)

To use the two-file style, make `jconfig.h` say `#define TWO_FILE_COMMANDLINE`.

Selecting a memory manager

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

* `jmemansi.c` This version uses the ANSI-standard library routine `tmpfile()`, which not all non-ANSI systems have. On some systems `tmpfile()` may put the temporary file in a non-optimal location; if you don't like what it does, use `jmemname.c`.

* `jmemname.c` This version creates named temporary files. For anything except a Unix machine, you'll need to configure the `select_file_name()` routine appropriately; see the comments near the head of `jmemname.c`. If you use this version, define `NEED_SIGNAL_CATCHER` in `jconfig.h` to make sure the temp files are removed if the program is aborted.

* `jmemnobs.c` (That stands for No Backing Store :-).) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* `jmemdos.c` This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. **IMPORTANT:** if you use this, define `USE_MSDOS_MEMMGR` in `jconfig.h`, and include the assembly file `jmemdosa.asm` in the programs. The supplied makefiles and `jconfig` files for 16-bit MS-DOS compilers already do both.

* `jmemmac.c` Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the `SYSDEPMEM` variable in your makefile to equal the corresponding object file name (for example, `jmemansi.o` or `jmemansi.obj` for `jmemansi.c`).

If you have plenty of (real or virtual) main memory, just use `jmemnobs.c`.

"Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion.

If yours doesn't, try `jmemansi.c` first. If that doesn't compile, you'll have to use `jmemname.c`; be sure to adjust `select_file_name()` for local conditions. You may also need to change `unlink()` to `remove()` in `close_backing_store()`.

Except with `jmemnobs.c` or `jmemmac.c`, you need to adjust the `DEFAULT_MAX_MEM` setting to a reasonable value for your system (either by adding a `#define` for `DEFAULT_MAX_MEM` to `jconfig.h`, or by adding a `-D` switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for `cjpeg` or `djpeg` are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set `DEFAULT_MAX_MEM` to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by `jmemdos.c`.)

BUILDING THE SOFTWARE

=====

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE

=====

As a quick test of functionality we've included a small sample image in several forms:

testorig.jpg Starting point for the djpeg tests.
testimg.ppm The output of djpeg testorig.jpg
testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
testimg.jpg The output of cjpeg testimg.ppm
testprog.jpg Progressive-mode equivalent of testorig.jpg.
testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppm
(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjpeg by hand and compare the output files to testimg* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t. Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a

good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testing.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE

=====

Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say
make install
to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying
make -n install
to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files
jpeglib.h jerror.h jconfig.h jmorecfg.h
into your include-file directory, and put the library file libjpeg.a

(extension may vary depending on system) wherever library files go.
If you generated a Makefile with "configure", it will do what it thinks
is the right thing if you say
make install-lib

OPTIONAL STUFF

=====

Progress monitor:

If you like, you can `#define PROGRESS_REPORT` (in `jconfig.h`) to enable display of percent-done progress reports. The routine provided in `cdjpeg.c` merely prints percentages to `stderr`, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:

1. `#define RLE_SUPPORTED` in `jconfig.h`.
2. Add a `-I` option to `CFLAGS` in the Makefile for the directory containing the URT `.h` files (typically the "include" subdirectory of the URT distribution).
3. Add `-L... -lrle` to `LDLIBS` in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:

1. In `jmorecfg.h`, define `BITS_IN_JSAMPLE` as 9, 10, 11, or 12 rather than 8.
2. In `jconfig.h`, undefine `BMP_SUPPORTED`, `RLE_SUPPORTED`, and `TARGA_SUPPORTED`, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:

The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION

=====

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step.

Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc).

Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS

=====

We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if `configure` or `ckconfig.c` is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)

After renaming the files according to Acorn conventions, take a copy of `makefile.ansi`, change all occurrences of `'libjpeg.a'` to `'libjpeg.o'` and change these definitions as indicated:

```
CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o
```

Also add a new line `'.c.o:; $(cc) $< $(cflags) -c -o $@'`. Remove the lines `'$(RM) libjpeg.o'` and `'$(AR2) libjpeg.o'` and the `'jconfig.h'` dependency section.

Copy `jconfig.txt` to `jconfig.h`. Edit `jconfig.h` to define `TWO_FILE_COMMANDLINE` and `CHAR_IS_UNSIGNED`.

Run the makefile using `!AMU` not `!Make`. If you want to use the `'clean'` and `'test'` makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use `jmemname.c` as the memory manager, with temporary files being created on the device named by "JPEGTMP:".

Atari ST/STE/TT:

Copy the project files `makcjpeg.st`, `makdjpeg.st`, `maktjpeg.st`, and `makljpeg.st` to `cjpeg.prj`, `djpeg.prj`, `jpegtran.prj`, and `libjpeg.prj` respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that `libjpeg.prj` selects `jmemansi.c` as the recommended memory manager. You'll probably want to adjust the `DEFAULT_MAX_MEM` setting --- you want it to be a couple hundred K less than your normal free memory. Put `#define DEFAULT_MAX_MEM nnnn` into `jconfig.h` to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace `pcfltlib.lib` with `pc881lib.lib` in `cjpeg.prj` and `djpeg.prj`. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining `DCT_FLOAT_SUPPORTED` in `jmorecfg.h` (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete `pcfltlib.lib` from the project files.

Note that you must make `libjpeg.lib` before making `cjpeg.ttp`, `djpeg.ttp`, or `jpegtran.ttp`. You'll have to perform the self-test by hand.

We haven't bothered to include project files for `rdjpgcom` and `wrjpgcom`. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the `default.prj` project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with `tmpfile()` not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in `cjpeg/djpeg/jpegtran`, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading

```
"#pragma novector" just before the loop
  for (i = 1; i <= (int) htbl->bits[i]; i++)
    huffsize[p++] = (char) i;
```

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdchuff.c).
[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

```
./configure CC='cc -Aa'
```

(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add "-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.

The CodeWarrior source code is available from <http://www.pobox.com/~jsam>.

2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific

implementation of `jpeg_mem_available()`. It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in `jmemmac.c` if you need to run it on System 6.) NOTE that `USE_MAC_MEMMGR` must be defined in `jconfig.h` to use `jmemmac.c`.

You can also use `jmemnobs.c`, if you don't care about handling images larger than available memory. If you use any memory manager back end other than `jmemmac.c`, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, `free()` may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because `jmemmgr.c` already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining `USE_CCOMMAND`. You'll also need to define `TWO_FILE_COMMANDLINE` to avoid stdin/stdout. This means that when using the `cjpeg/djpeg` programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps `USE_FDOPEN` or `USE_SETMODE` would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. `jmemmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `#define ALIGN_TYPE long` to `jconfig.h` to eliminate the complaint.

The supplied configuration file `jconfig.mac` can be used for your `jconfig.h`; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script `makeproj.mac` to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression

modules. Define `USE_CCOMMAND` in `jconfig.h` so that the `ccommand()` routine is called. You must also define `TWO_FILE_COMMANDLINE` because `stdin/stdout` don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. `jmemmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `#define ALIGN_TYPE long` to `jconfig.h` to eliminate the complaint.

`jconfig.mac` should work as a `jconfig.h` configuration file for Think C, but the `makeproj.mac` AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's `cc` version 1.31 has a rather nasty optimization bug. Don't use `-O` if you have that compiler version. (Use `"cc -V"` to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile `cjpeg` or `djpeg` by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that `NEED_FAR_POINTERS` is defined in `jconfig.h` if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and `jconfig` files for Borland and Microsoft C compile in medium model and define `NEED_FAR_POINTERS`.)

The DOS-specific memory manager, `jmemdos.c`, should be used if possible. It needs some assembly-code routines which are in `jmemdosa.asm`; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for `jmemdosa` by FTP from `ftp.uu.net:/graphics/jpeg/jdosaobj.zip`. (DOS-oriented distributions of the IJG source code often include these object files.)

When using `jmemdos.c`, `jconfig.h` must define `USE_MSDOS_MEMMGR` and must set `MAX_ALLOC_CHUNK` to less than 64K (65520L is a typical value). If your C library's far-heap `malloc()` can't allocate blocks that large, reduce `MAX_ALLOC_CHUNK` to whatever it can handle.

If you can't use `jmemdos.c` for some reason --- for example, because you don't have an assembler to assemble `jmemdosa.asm` --- you'll have to fall back to `jmemansi.c` or `jmemname.c`. You'll probably still need to set

MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. **IMPORTANT:** if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "\$ (RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

```
/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
```

```
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)
```

winddef.h contains the declarations

```
#define far
#define FAR far
```

Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and winddef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/"#endif" around the line "#define FAR" in jmorecfg.h.

(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:

1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line

```
fprintf(stderr, "%s\n", buffer);
```

(in output_message in jerror.c) with

```
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
```

It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put

```
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
```

into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd

have to use huge memory model, which slows things down unnecessarily.)

jmemnobs.c works without modification in large or flat memory models, but to

use medium model, you need to modify its jpeg_get_large and jpeg_free_large

routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_XXX macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:

```
#define GLOBAL(type) type _far _pascal _loads _export
#define EXTERN(type) extern type _far _pascal _loads
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist) \
    type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type
```

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has

been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided `jconfig.bcc` should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define `NEED_FAR_POINTERS` and `MAX_ALLOC_CHUNK`). Beware that `makefile.bcc` will need alteration if you want to use it for Windows --- in particular, you should use `jmemnobs.c` not `jmemdos.c` under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile `jdmerge.c` in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable `range_limit` in `h2v1_merged_upsample()`, at the head of the block that handles odd image width (about line 268 in `v6_jdmerge.c`):

```
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
```

Pretty bizarre, especially since the very similar routine `h2v2_merged_upsample` doesn't trigger the bug.

Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:

```
-Ot -Og
-Ot -Op
-Ot -Om
```

So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

`jconfig.vc` should work OK with any Microsoft compiler for a 32-bit memory model. `makefile.vc` is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to `jpeglib.h`. This avoids the need to put extern "C" { ... } around `#include "jpeglib.h"` in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the `*.c` files to `*.cpp` (and adjusting the makefile to match).

In this case you also need to define the symbol `DONT_USE_EXTERN_C` in the configuration to prevent `jpeglib.h` from using `extern "C"`.

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the command prompt, change to the main directory and execute the command line
`NMAKE /f makefile.vs setup-vc6`
This will move `jconfig.vc` to `jconfig.h` and makefiles to project files.
(Note that the renaming is critical!)
2. Open the workspace file `jpeg.dsw`, build the library project.
(If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file `apps.dsw`, build the application projects.
4. To perform the self-test, execute the command line
`NMAKE /f makefile.vs test-build`
5. Move the application `.exe` files from ``app`\Release` to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the Developer Command Prompt, change to the main directory and execute the command line
`NMAKE /f makefile.vs setup-v15`
This will move `jconfig.vc` to `jconfig.h` and makefiles to project files.
(Note that the renaming is critical!)
2. Open the solution file `jpeg.sln`, build the library project.
 - a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.

- b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile. If you are using configure, you can do this by saying

```
./configure RANLIB='ar -ts'
```

This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):

```
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/install.txt
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jcmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2003-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
 */
```

Found in path(s):

`/opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcmarker.c`

No license file was found, but licenses were detected in source scan.

```
/*
 * jdapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */
```

Found in path(s):

`/opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdapistd.c`

No license file was found, but licenses were detected in source scan.

```
/*
 * jcmaintct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2003-2012 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
```

* compressor proper; it holds downsampled data in the JPEG colorspace.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcmainct.c

No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemdosa.asm

No license file was found, but licenses were detected in source scan.

/*

* jpegint.h

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 1997-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file provides common declarations for the various JPEG modules.

* These declarations are considered internal to the JPEG library; most

* applications using the library shouldn't need to include this file.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jpegint.h

No license file was found, but licenses were detected in source scan.

/*

* jerror.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2012-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains simple error-reporting and trace-message routines.

* These are suitable for Unix-like systems and others where writing to

* stderr is the right thing to do. Many applications will want to replace

* some or all of these routines.

*

* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,

* you get a Windows-specific hack to display error messages in a dialog box.

* It ain't much, but it beats dropping error messages into the bit bucket,

* which is what happens to output to stderr under most Windows C compilers.

*

* These routines are used by both the compression and decompression code.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jerror.c

No license file was found, but licenses were detected in source scan.

/*

* jidctflt.c

*

* Copyright (C) 1994-1998, Thomas G. Lane.

* Modified 2010-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.

*

* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.

*

* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.

*

* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.

* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.

* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jidctflt.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jmemname.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a generic implementation of the system-dependent
 * portion of the JPEG memory manager. This implementation assumes that
 * you must explicitly construct a name for each temp file.
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */
```

Found in path(s):

```
*/opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemname.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jaricom.c
 *
 * Developed 1997-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.3 in the JPEG spec (D.2 in the draft),
 * ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
 * in the JBIG spec, ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82.
 */
```

Found in path(s):

```
*/opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jaricom.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
```


* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 *
 * We also provide IDCT routines with various output sample block sizes for
 * direct resolution reduction or enlargement and for direct resolving the
 * common 2x1 and 1x2 subsampling cases without additional resampling: NxN
 * (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
 *
 * For N<8 we simply take the corresponding low-frequency coefficients of
 * the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
 * to yield the downsampled outputs.
 * This can be seen as direct low-pass downsampling from the DCT domain
 * point of view rather than the usual spatial domain point of view,
 * yielding significant computational savings and results at least
 * as good as common bilinear (averaging) spatial downsampling.
 *
 * For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
 * lower frequencies and higher frequencies assumed to be zero.
 * It turns out that the computational effort is similar to the 8x8 IDCT
 * regarding the output size.
 * Furthermore, the scaling and descaling is the same for all IDCT sizes.
 *
 * CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
 * since there would be too many additional constants to pre-calculate.
 */

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jidctint.c

No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file `example.c` provides heavily commented skeleton code for calling the JPEG library. Also see `jpeglib.h` (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW

=====

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions **not** provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

- * Hierarchical storage
- * Lossless JPEG
- * DNL marker
- * Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different

precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage

The rough outline of a JPEG compression operation is:

```
Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
    jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object
```

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to `jpeg_write_scanlines()` from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

```
Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
    jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
```

Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to `jpeg_read_scanlines()`.

It is possible to abort an incomplete compression or decompression operation by calling `jpeg_abort()`; or, if you do not need to retain the JPEG object, simply release it by calling `jpeg_destroy()`.

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as `jpeg_destroy()` can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE

=====

Data formats

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.

A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio

stream beforehand. Typical code for this step looks like:

```
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

image_width Width of image, in pixels
image_height Height of image, in pixels
input_components Number of color channels (samples per pixel)
in_color_space Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set `in_color_space` correctly before calling `jpeg_set_defaults()`, because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call `jpeg_start_compress()`. There's no harm in calling `jpeg_set_defaults()` more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```
cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */
```

4. `jpeg_start_compress(...)`;

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. `while (scan lines remain to be written)`

```
jpeg_write_scanlines(...);
```

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec

contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like `"while (cinfo.next_scanline < cinfo.image_height)"`.

Code for this step depends heavily on the way that you store the source data. `example.c` shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

`jpeg_write_scanlines()` returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

- * If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
- * If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal `stdio` destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of `next_scanline`.

6. `jpeg_finish_compress(...)`;

After all the image data has been written, call `jpeg_finish_compress()` to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.

`jpeg_finish_compress()` also releases working memory associated with the JPEG object.

Typical code:

```
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, `jpeg_finish_compress()` will perform the additional passes using data buffered by the first pass. In this case `jpeg_finish_compress()` may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call `jpeg_finish_compress()` before writing the necessary total number of scanlines. If you wish to abort compression, call `jpeg_abort()` as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call `jpeg_set_defaults()` to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling `jpeg_destroy_compress()`. This will free all subsidiary memory (regardless of the previous state of the object). Or you can call `jpeg_destroy()`, which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, `jpeg_destroy()` should be passed a `j_common_ptr`.)

If you allocated the `jpeg_compress_struct` structure from `malloc()`, freeing it is your responsibility --- `jpeg_destroy()` won't. Ditto for the error handler structure.

Typical code:

```
jpeg_destroy_compress(&cinfo);
```

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call `jpeg_destroy_compress()` or `jpeg_destroy()` to release memory. This is legitimate at any point after calling `jpeg_create_compress()` --- in fact, it's safe even if `jpeg_create_compress()` fails.

* If you want to re-use the JPEG object, call `jpeg_abort_compress()`, or call `jpeg_abort()` which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. `jpeg_abort()` is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call `term_destination()`. (See "Compressed data handling", below, for more about that.)

`jpeg_destroy()` and `jpeg_abort()` are the only safe calls to make on a JPEG object that has reported an error by calling `error_exit` (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct `jpeg_decompress_struct`" and you call `jpeg_create_decompress()`. Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension",

below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call `jpeg_destroy()` when you are done with the JPEG object, or call `jpeg_abort()` to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

`jpeg_read_header()` sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to `jpeg_read_header()`. If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. `jpeg_start_decompress(...)`;

Once the parameter values are satisfactory, call `jpeg_start_decompress()` to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

```
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested

scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

```
6. while (scan lines remain to be read)
    jpeg_read_scanlines(...);
```

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.)

The return value always equals the change in the value of `output_scanline`.

If you don't use a suspending data source, it is safe to assume that `jpeg_read_scanlines()` reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that `jpeg_read_scanlines()` fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls `jpeg_read_scanlines()` repeatedly until the whole image has been read.

7. `jpeg_finish_decompress(...)`;

After all the image data has been read, call `jpeg_finish_decompress()` to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

```
jpeg_finish_decompress(&cinfo);
```

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call `jpeg_finish_decompress()` before reading the correct total number of scanlines. If you wish to abort decompression, call `jpeg_abort()` as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling `jpeg_destroy_decompress()` or `jpeg_destroy()`. The previous discussion of destroying compression objects applies here too.

Typical code:

```
jpeg_destroy_decompress(&cinfo);
```

9. Aborting.

You can abort a decompression cycle by calling `jpeg_destroy_decompress()` or `jpeg_destroy()` if you don't need the JPEG object any more, or `jpeg_abort_decompress()` or `jpeg_abort()` if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file `jpeglib.h` to obtain declarations of data types and routines. Before including `jpeglib.h`, include system headers that define at least the typedefs `FILE` and `size_t`. On ANSI-conforming systems, including `<stdio.h>` is sufficient; on older Unix systems, you may need `<sys/types.h>` to define `size_t`.

If the application needs to refer to individual JPEG library error codes, also include `jerror.h` to define those symbols.

`jpeglib.h` indirectly includes the files `jconfig.h` and `jmorecfg.h`. If you are installing the JPEG header files in a system directory, you will want to install all four files: `jpeglib.h`, `jerror.h`, `jconfig.h`, `jmorecfg.h`.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("`libjpeg.a`", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build `libjpeg.a` automatically (see `install.txt`).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is **not** guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the `jmemdos.c` memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See `cjpeg.c` or `djpeg.c` for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually

require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use `jmemnobs.c` (or another memory manager of your own devising). More info about the minimum system library requirements may be found in `jinclude.h`.

ADVANCED FEATURES

=====

Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call `jpeg_set_defaults()` first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling `cinfo` fields directly.

The helper routines are:

`jpeg_set_defaults(j_compress_ptr cinfo)`

This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field `in_color_space`, which must already be set in `cinfo`). Many applications will only need to use this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace(j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`

Sets the JPEG file's colorspace (field `jpeg_color_space`) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call `jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace(j_compress_ptr cinfo)`

Selects an appropriate JPEG colorspace based on `cinfo->in_color_space`, and calls `jpeg_set_colorspace()`. This is actually a subroutine of `jpeg_set_defaults()`. It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

`jpeg_set_quality(j_compress_ptr cinfo, int quality, boolean force_baseline)`

Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the `force_baseline` parameter is `TRUE`, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when `force_baseline` is `FALSE`, but other decoders may not be.

`jpeg_set_linear_quality(j_compress_ptr cinfo, int scale_factor, boolean force_baseline)`

Same as `jpeg_set_quality()` except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus `scale_factor = 100` reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. `force_baseline` again constrains the computed table entries to 1..255.

`int jpeg_quality_scaling(int quality)`

Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

`jpeg_default_qtables(j_compress_ptr cinfo, boolean force_baseline)`

Set default quantization tables with linear `q_scale_factor[]` values (see below).

`jpeg_add_quant_table(j_compress_ptr cinfo, int which_tbl, const unsigned int *basic_table, int scale_factor, boolean force_baseline)`

Allows an arbitrary quantization table to be created. `which_tbl` indicates which table slot to fill. `basic_table` points to an array of 64 unsigned ints given in normal array order. These values are multiplied by `scale_factor/100` and then clamped to the range 1..65535 (or to 1..255 if `force_baseline` is `TRUE`).

CAUTION: prior to library version 6a, `jpeg_add_quant_table` expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like

"#if JPEG_LIB_VERSION >= 61" is the right test.

`jpeg_simple_progression (j_compress_ptr cinfo)`

Generates a default scan script for writing a progressive-JPEG file.

This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean `arith_code`

If TRUE, use arithmetic coding.

If FALSE, use Huffman coding.

int `block_size`

Set DCT block size. All N from 1 to 16 are possible.

Default is 8 (baseline format).

Larger values produce higher compression, smaller values produce higher quality.

An exact DCT stage is possible with 1 or 2.

With the default quality of 75 and default Luminance qtable the DCT+Quantization stage is lossless for value 1.

Note that values other than 8 require a SmartScale capable decoder, introduced with IJG JPEG 8. Setting the `block_size` parameter for compression works with version 8c and later.

`J_DCT_METHOD` `dct_method`

Selects the algorithm used for the DCT step. Choices are:

`JDCT_ISLOW`: slow but accurate integer algorithm

`JDCT_IFAST`: faster, less accurate integer method

`JDCT_FLOAT`: floating-point method

`JDCT_DEFAULT`: default method (normally `JDCT_ISLOW`)

`JDCT_FASTEST`: fastest method (normally `JDCT_IFAST`)

The `JDCT_FLOAT` method is very slightly more accurate than the `JDCT_ISLOW` method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The `JDCT_IFAST` method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. `JDCT_DEFAULT` and `JDCT_FASTEST` are macros configurable by each installation.

unsigned int `scale_num`, `scale_denom`

Scale the image by the fraction `scale_num/scale_denom`. Default is

1/1, or no scaling. Currently, the supported scaling ratios are

M/N with all N from 1 to 16, where M is the destination DCT size,

which is 8 by default (see `block_size` parameter above).

(The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space

int num_components

The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform

Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9).

Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.

Set this value for lossless RGB application *before* calling jpeg_set_colorspace(), because entropy table assignment in jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding

TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval

int restart_in_rows

To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice. NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info

int num_scans

By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or

progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (`jpeg_simple_progression` creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean `do_fancy_downsampling`

If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate downsampling. Default is TRUE.

For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding `do_fancy_upsampling` value in decompression.

int `smoothing_factor`

If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult `jcsample.c` for details of the smoothing algorithm. The default is zero.

boolean `write_JFIF_header`

If TRUE, a JFIF APP0 marker is emitted. `jpeg_set_defaults()` and `jpeg_set_colorspace()` set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 `JFIF_major_version`

UINT8 `JFIF_minor_version`

The version number to be written into the JFIF marker.

`jpeg_set_defaults()` initializes the version to 1.01 (major=minor=1).

You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 `density_unit`

UINT16 `X_density`

UINT16 `Y_density`

The resolution information to be written into the JFIF marker;

not used otherwise. `density_unit` may be 0 for unknown,

1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1

indicating square pixels of unknown size.

boolean `write_Adobe_marker`

If TRUE, an Adobe APP14 marker is emitted. `jpeg_set_defaults()` and `jpeg_set_colorspace()` set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both `write_JFIF_header` and `write_Adobe_marker`. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100) for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you have to convert from user-defined ratings via jpeg_quality_scaling(). Here is an example code which corresponds to cjpeg -quality 90,70:

```
jpeg_set_defaults(cinfo);  
  
/* Set luminance quality 90. */  
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);  
/* Set chrominance quality 70. */  
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);  
  
jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

```
cinfo->comp_info[0].v_samp_factor = 1;  
cinfo->comp_info[0].h_samp_factor = 1;
```

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying

to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.

JDIMENSION jpeg_height

Per-component parameters are stored in the struct `cinfo.comp_info[i]` for component number `i`. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large `comp_info[]` array is allocated by `jpeg_set_defaults()`; if you choose not to use that routine, it's up to you to allocate the array.

int component_id

The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor

int v_samp_factor

Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no

Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no

int ac_tbl_no

DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index

Must equal the component's index in `comp_info[]`. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application.

(Unless you are working with abbreviated files, in which case see

"Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by `jpeg_read_header()` and may be useful to the application in choosing decompression parameters:

JDIMENSION `image_width` Width and height of image
JDIMENSION `image_height`
int `num_components` Number of color components
J_COLOR_SPACE `jpeg_color_space` Colorspace of image
boolean `saw_JFIF_marker` TRUE if a JFIF APP0 marker was seen
UINT8 `JFIF_major_version` Version information from JFIF marker
UINT8 `JFIF_minor_version`
UINT8 `density_unit` Resolution data from JFIF marker
UINT16 `X_density`
UINT16 `Y_density`
boolean `saw_Adobe_marker` TRUE if an Adobe APP14 marker was seen
UINT8 `Adobe_transform` Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE `out_color_space`
Output color space. `jpeg_read_header()` sets an appropriate default based on `jpeg_color_space`; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to `JCS_GRAYSCALE` to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend `jdcolor.c` if you want an unusual conversion.

unsigned int `scale_num`, `scale_denom`
Scale the image by the fraction `scale_num/scale_denom`. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely

to be implemented any time soon.) The values are initialized by `jpeg_read_header()` with the source DCT size. For baseline JPEG this is 8/8. If you change only the `scale_num` value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean `quantize_colors`

If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if `quantize_colors` is TRUE.

int `desired_number_of_colors`

Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field).

Default 256. Ignored when the application supplies its own color map.

boolean `two_pass_quantize`

If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE `dither_mode`

Selects color dithering method. Supported values are:

JDITHER_NONE no dithering: fast, very low quality

JDITHER_ORDERED ordered dither: moderate speed and quality

JDITHER_FS Floyd-Steinberg dither: slow, high quality

Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when `two_pass_quantize` is TRUE or when you supply an external color map, you'll get F-S dithering.)

When `quantize_colors` is TRUE, the target color map is described by the next two fields. `colormap` is set to NULL by `jpeg_read_header()`. The application can supply a color map by setting `colormap` non-NULL and setting `actual_number_of_colors` to the map size. Otherwise, `jpeg_start_decompress()` selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY `colormap`

The color map, represented as a 2-D pixel array of `out_color_components` rows and `actual_number_of_colors` columns. Ignored if not quantizing.

CAUTION: if the JPEG library creates its own colormap, the storage

pointed to by this field is released by `jpeg_finish_decompress()`.
Copy the colormap somewhere else first, if you want to save it.

`int actual_number_of_colors`

The number of colors in the color map.

Additional decompression parameters that the application may set include:

`J_DCT_METHOD dct_method`

Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

`boolean do_fancy_upsampling`

If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate upsampling. Default is TRUE.

For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding `do_fancy_downsampling` value in compression.

`boolean do_block_smoothing`

If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

`boolean enable_1pass_quant`

`boolean enable_external_quant`

`boolean enable_2pass_quant`

These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by `jpeg_start_decompress()`. You can also call `jpeg_calc_output_dimensions()` to obtain the values that will result from the current parameter settings.

This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* `jpeg_start_decompress()`.

`JDIMENSION output_width` Actual dimensions of output image.

`JDIMENSION output_height`

`int out_color_components` Number of color components in `out_color_space`.

int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4).

If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB \Leftrightarrow YCbCr and CMYK \Leftrightarrow YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

RGB => YCbCr
RGB => GRAYSCALE
RGB => BG_YCC
YCbCr => GRAYSCALE
YCbCr => BG_YCC
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards.

`jpeg_set_colorspace()` will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting `in_color_space` and `jpeg_color_space` to `JCS_YCbCr`; use `JCS_UNKNOWN`. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for `jpeg_set_colorspace()`, in `jcparam.c`, for details.

For decompression, the JPEG file's color space is given in `jpeg_color_space`, and this is transformed to the output color space `out_color_space`.

`jpeg_read_header`'s setting of `jpeg_color_space` can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override `jpeg_read_header`'s guess by setting `jpeg_color_space`. `jpeg_read_header` also selects a default output color space based on (its guess of) `jpeg_color_space`; set `out_color_space` to override this. Again, you must select a supported transformation. `jdcolor.c` currently supports

YCbCr => RGB

YCbCr => GRAYSCALE

BG_YCC => RGB

BG_YCC => GRAYSCALE

RGB => GRAYSCALE

GRAYSCALE => RGB

YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, `jquant2.c`, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that `jquant2.c` is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG

files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file `example.c` illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

- * Fatal errors: the library cannot continue.
- * Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
- * Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (`jerror.c`) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling `jpeg_std_error()` as usual, but then overriding some of the method pointers in the `jpeg_error_mgr` struct, as illustrated by `example.c`.

All of the error handling routines will receive a pointer to the JPEG object (a `j_common_ptr` which points to either a `jpeg_compress_struct` or a `jpeg_decompress_struct`; if you need to tell which, test the `is_decompressor` field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG

object or the `jpeg_error_mgr` struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see `example.c` for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch `client_data` at all.)

The individual methods that you might wish to override are:

`error_exit (j_common_ptr cinfo)`

Receives control for a fatal error. Information sufficient to generate the error message has been stored in `cinfo->err`; call `output_message` to display it. Control must NOT return to the caller; generally this routine will `exit()` or `longjmp()` somewhere. Typically you would override this routine to get rid of the `exit()` default behavior. Note that if you continue processing, you should clean up the JPEG object with `jpeg_abort()` or `jpeg_destroy()`.

`output_message (j_common_ptr cinfo)`

Actual output of any JPEG message. Override this to send messages somewhere other than `stderr`. Note that this method does not know how to generate a message, only where to send it.

`format_message (j_common_ptr cinfo, char * buffer)`

Constructs a readable error message string based on the error info stored in `cinfo->err`. This method is called by `output_message`. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

`emit_message (j_common_ptr cinfo, int msg_level)`

Decide whether or not to emit a warning or trace message; if so, calls `output_message`. The main reason for overriding this method would be to abort on warnings. `msg_level` is -1 for warnings, 0 and up for trace messages.

Only `error_exit()` and `emit_message()` are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field `err->jpeg_message_table`. The messages are numbered from 0 to `err->last_jpeg_message`, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See `jerror.h` for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are

handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer `err->addon_message_table` and the message numbers `err->first_addon_message` and `err->last_addon_message`. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications `cjpeg/djpeg` for an example of using addon messages (the addon messages are defined in `cderror.h`).

Actual invocation of the error handler is done via macros defined in `jerror.h`:

`ERREXITn(...)` for fatal errors

`WARNMSn(...)` for corrupt-data warnings

`TRACEMSn(...)` for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the `error_exit()` or `emit_message()` method.

The variants of each macro are for varying numbers of additional parameters.

The additional parameters are inserted into the generated message using standard `printf()` format codes.

See `jerror.h` and `jerror.c` for further details.

Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype `JOCTET`, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define `JOCTET` as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;    /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's `empty_output_buffer` method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

`init_destination (j_compress_ptr cinfo)`

Initialize destination. This is called by `jpeg_start_compress()` before any data is actually written. It must initialize `next_output_byte` and `free_in_buffer`. `free_in_buffer` must be initialized to a positive value.

`empty_output_buffer (j_compress_ptr cinfo)`

This is called whenever the buffer has filled (`free_in_buffer` reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of `next_output_byte` and `free_in_buffer`). Then reset the pointer & count to the start of the buffer, and return `TRUE` indicating that the buffer has been dumped. `free_in_buffer` must be set to a positive value when `TRUE` is returned. A `FALSE` return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

`term_destination (j_compress_ptr cinfo)`

Terminate destination --- called by `jpeg_finish_compress()` after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either `next_output_byte` or `free_in_buffer` to determine how much data is in the buffer.

`term_destination()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_destination_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_dest()` or `jpeg_mem_dest()` routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;      /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's `fill_input_buffer` method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

`init_source (j_decompress_ptr cinfo)`

Initialize source. This is called by `jpeg_read_header()` before any data is actually read. Unlike `init_destination()`, it may leave `bytes_in_buffer` set to 0 (in which case a `fill_input_buffer()` call will occur immediately).

`fill_input_buffer (j_decompress_ptr cinfo)`

This is called whenever `bytes_in_buffer` has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of `next_input_byte` and `bytes_in_buffer`), reset the pointer & count to the start of the buffer, and return `TRUE` indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. `bytes_in_buffer` **MUST** be set to a positive value if `TRUE` is returned. A `FALSE` return should only be used when I/O suspension is desired (this mode is discussed in the next section).

`skip_input_data (j_decompress_ptr cinfo, long num_bytes)`

Skip `num_bytes` worth of data. The buffer pointer and count should be advanced over `num_bytes` input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. `bytes_in_buffer` may be zero on return. A zero or negative skip count should be treated as a no-op.

`resync_to_restart (j_decompress_ptr cinfo, int desired)`

This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, `jpeg_resync_to_restart()`. However, if you are able to back

up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the `read_restart_marker()` and `jpeg_resync_to_restart()` routines in `jdmarker.c` if you think you'd like to implement your own resync procedure.

`term_source (j_decompress_ptr cinfo)`

Terminate source --- called by `jpeg_finish_decompress()` after all data has been read. Often a no-op.

For both `fill_input_buffer()` and `skip_input_data()`, there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via `ERREXIT()` or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. `jdatsrc.c` illustrates the recommended error recovery behavior.

`term_source()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_source_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_src()` or `jpeg_mem_src()` routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in `jdatsrc.c` and `jdatadst.c`.

I/O suspension

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the `empty_output_buffer()` or `fill_input_buffer()` routine is a no-op, merely returning `FALSE` to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an `empty_output_buffer()` routine that returns `FALSE`; typically it will not do anything else. This will cause the compressor to return to the caller of `jpeg_write_scanlines()`, with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call `jpeg_write_scanlines()` again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although `empty_output_buffer()` is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of `next_output_byte/free_in_buffer`. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call `jpeg_write_scanlines()` unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

- * At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
- * When you call `jpeg_finish_compress()`, there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but

for safety's sake we recommend ensuring that at least 100 bytes are free before calling `jpeg_finish_compress()`.

A more significant restriction is that `jpeg_finish_compress()` cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during `jpeg_finish_compress()`, which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a `fill_input_buffer()` routine that simply returns `FALSE` (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

- * `jpeg_read_header()`: will return `JPEG_SUSPENDED`.
- * `jpeg_start_decompress()`: will return `FALSE`, rather than its usual `TRUE`.
- * `jpeg_read_scanlines()`: will return the number of scanlines already completed (possibly 0).
- * `jpeg_finish_decompress()`: will return `FALSE`, rather than its usual `TRUE`.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of `jpeg_read_scanlines()`, increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When `fill_input_buffer()` is called, `next_input_byte/bytes_in_buffer` point to the current restart point, which is where the decompressor will backtrack to if `FALSE` is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The `skip_input_data()` source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement `bytes_in_buffer` to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then `skip_input_data()` must set `bytes_in_buffer` to zero and record the additional skip distance somewhere else. The decompressor will immediately call `fill_input_buffer()`, which should return `FALSE`, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more

common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within `fill_input_buffer()`; the latter is probably more efficient. If `fill_input_buffer()` knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return `TRUE` just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling `skip_input_data()`. In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on `skip_input_data`'s shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having `empty_output_buffer()` or `fill_input_buffer()` set the pointer and count to reference the next available buffer; `FALSE` is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when `FALSE` is returned could back up into an earlier buffer. For example, when `fill_input_buffer()` is called, the current pointer & count indicate the backtrack restart point. Since `fill_input_buffer()` will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to `fill_input_buffer()` occurs in the same library call, and no additional input data is available, so `fill_input_buffer` must return `FALSE`. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior

buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a `skip_input_data()` call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when `fill_input_buffer()` is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to

suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.)

When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making

input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output() /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output() /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color

quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release the buffered image (or just use `jpeg_destroy_decompress()`).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine `jpeg_consume_input()`.

The return value is one of the following:

`JPEG_REACHED_SOS`: reached an SOS marker (the start of a new scan)

`JPEG_REACHED_EOI`: reached the EOI marker (end of image)

`JPEG_ROW_COMPLETED`: completed reading one MCU row of compressed data

`JPEG_SCAN_COMPLETED`: completed reading last MCU row of current scan

`JPEG_SUSPENDED`: suspended before completing any of the above

(`JPEG_SUSPENDED` can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It

reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will

immediately return `JPEG_REACHED_EOI` without attempting to read more data.)

The library's output processing will automatically call `jpeg_consume_input()` whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to `jpeg_consume_input()`. But by adding calls to `jpeg_consume_input()`, you can absorb data in advance of what is being displayed. This has two benefits:

- * You can limit buildup of unprocessed data in your input buffer.
- * You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to `jpeg_consume_input()` with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call `jpeg_consume_input()` only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call `jpeg_consume_input()` from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass

`cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`. The `input_scan_number` field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling `jpeg_start_output()`: call `jpeg_consume_input()` repeatedly until it returns `JPEG_SUSPENDED` or `JPEG_REACHED_EOI`.

The target scan number passed to `jpeg_start_output()` is saved in the `cinfo.output_scan_number` field. The library's output processing calls `jpeg_consume_input()` whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what `jpeg_start_decompress()` does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, `jpeg_consume_input()` will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is

something like this:

```
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as `jpeg_input_complete()` returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the `JPEG_REACHED_EOI` return code from `jpeg_consume_input()`, or equivalently by testing `jpeg_input_complete()`.) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call `jpeg_finish_output()` and then start a new pass with `jpeg_start_output()`.

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting `JPEG_REACHED_SOS` returns and/or examining `cinfo.input_scan_number`. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a

higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call `jpeg_consume_input()` until it returns `JPEG_REACHED_SOS` or `JPEG_REACHED_EOI`. Or just use the next higher number as the target scan for `jpeg_start_output()`; but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, `jpeg_start_decompress()` never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

- * `jpeg_start_output()` performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
- * `jpeg_read_scanlines()`, as always, returns the number of scanlines that it was able to produce before suspending.
- * `jpeg_finish_output()` will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if `jpeg_consume_input()` has already reached the end of the file or a SOS marker beyond the target output scan.)
- * `jpeg_finish_decompress()` will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling `jpeg_input_complete()`).

`jpeg_start_output()`, `jpeg_finish_output()`, and `jpeg_finish_decompress()` all return `TRUE` if they completed their tasks, `FALSE` if they had to suspend. In the event of a `FALSE` return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. **ONLY THE FOLLOWING** parameter changes are allowed after `jpeg_start_decompress()` is called:

- * `dct_method` can be changed before each call to `jpeg_start_output()`. For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
- * `dither_mode` can be changed before each call to `jpeg_start_output()`; of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial `max_memory_to_use` specification to be exceeded, which in the worst

case would result in an out-of-memory failure.

* `do_block_smoothing` can be changed before each call to `jpeg_start_output()`.

This setting is relevant only when decoding a progressive JPEG image.

During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below.

You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display.

The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.

Selected by `cinfo.two_pass_quantize = FALSE` and `cinfo.colormap = NULL`.

2. Single-pass quantization to an application-supplied colormap.

Selected by setting `cinfo.colormap` to point to the colormap (the value of `two_pass_quantize` is ignored); also set `cinfo.actual_number_of_colors`.

3. Two-pass quantization to a colormap chosen specifically for the image.

Selected by `cinfo.two_pass_quantize = TRUE` and `cinfo.colormap = NULL`.

(This is the default setting selected by `jpeg_read_header`, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call `jpeg_start_decompress()`. (If we did not require this, the `max_memory_to_use` setting would be a complete fiction.)

You do this by setting one or more of these three `cinfo` fields to `TRUE`:

`enable_1pass_quant` Fixed color cube colormap

`enable_external_quant` Externally-supplied colormap

`enable_2pass_quant` Two-pass custom colormap

All three are initialized `FALSE` by `jpeg_read_header()`. But

`jpeg_start_decompress()` automatically sets `TRUE` the one selected by the current `two_pass_quantize` and `colormap` settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at `jpeg_start_decompress()` time, you can change to any enabled quantization method by setting `two_pass_quantize` and `colormap` properly just before calling `jpeg_start_output()`. The following special rules apply:

1. You must explicitly set `cinfo.colormap` to `NULL` when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass

quantizer to be re-run to generate a new colormap.

2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call `jpeg_new_colormap()` after setting `cinfo.colormap`.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because `cinfo.colormap` will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during `jpeg_start_output()`, not during `jpeg_start_decompress()`.

When using two-pass quantization, `jpeg_start_output()` makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, `jpeg_start_output()` will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from `jpeg_start_output()` under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which `jpeg_start_output()` will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling `jpeg_has_multiple_scans()`, which will return a correct result at any time after `jpeg_read_header()` completes.

It is also worth noting that when you use `jpeg_consume_input()` to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager `jmemnobs.c` if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that `max_memory_to_use` is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten

around to it yet.)

In some applications it may be convenient to use `jpeg_consume_input()` for all input processing, including reading the initial markers; that is, you may wish to call `jpeg_consume_input()` instead of `jpeg_read_header()` during startup. This works, but note that you must check for `JPEG_REACHED_SOS` and `JPEG_REACHED_EOI` return codes as the equivalent of `jpeg_read_header's` codes. Once the first SOS marker has been reached, you must call `jpeg_start_decompress()` before `jpeg_consume_input()` will consume more input; it'll just keep returning `JPEG_REACHED_SOS` until you do. If you read a tables-only file this way, `jpeg_consume_input()` will return `JPEG_REACHED_EOI` without ever returning `JPEG_REACHED_SOS`; be sure to check for this case. If this happens, the decompressor will not read any more input until you call `jpeg_abort()` to reset it. It is OK to call `jpeg_consume_input()` even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return `JPEG_SUSPENDED`.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

- * "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
- * "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
- * "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate

the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

```
create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
```

```

jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

```

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the `jpeg_start_compress()` ... `jpeg_finish_compress()` sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set `optimize_coding = TRUE` when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See `jpeg_copy_critical_parameters()` for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```

if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}

```

Code to load a fixed Huffman table is typically (for AC table "n"):

```

if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}

```

```
}
```

(Note that trying to set `cinfo.quant_tbl_ptrs[n]` to point directly at a constant `JQUANT_TBL` object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The `jpeg_read_header()` call is sufficient to read a tables-only file. You must pass a second parameter of `FALSE` to indicate that you do not require an image to be present. Thus, the typical scenario is

```
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);
```

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass `FALSE` and check the return value from `jpeg_read_header()`: it will be `JPEG_HEADER_OK` if an image was found, `JPEG_HEADER_TABLES_ONLY` if only tables were found. (A third return value, `JPEG_SUSPENDED`, is possible when using a suspending data source manager.) Note that `jpeg_read_header()` will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in `jpeg_start_decompress()`.

It is possible to read a series of images from a single source file by repeating the `jpeg_read_header() ... jpeg_finish_decompress()` sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at `term_destination()` time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated

ones by passing FALSE to jpeg_start_compress().

Special markers

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.)

For example, to write a user comment string pointed to by comment_text:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call `jpeg_write_m_header()` followed by multiple calls to `jpeg_write_m_byte()`. If you do it this way, it's your responsibility to call `jpeg_write_m_byte()` exactly the number of times given in the length parameter to `jpeg_write_m_header()`. (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set `cinfo.JFIF_minor_version = 2` so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling `jpeg_read_header()`, because the markers of interest will typically be near the head of the file and so will be scanned by `jpeg_read_header`. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call `jpeg_save_markers(cinfo, marker_code, length_limit)` where `marker_code` is the marker type to save, `JPEG_COM` or `JPEG_APP0+n`. (To arrange to save all the special marker types, you need to call this

routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to `0xFFFF`; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After `jpeg_read_header()` completes, you can examine the special markers by following the `cinfo->marker_list` pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed `length_limit` for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which `jpeg_read_header` stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing `jpeg_read_header`, to ensure that the `max_memory_to_use` setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call `jpeg_finish_decompress` or `jpeg_abort`, at which point the memory is freed and the list is set to empty. (`jpeg_destroy` also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by `malloc()` limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling `jpeg_set_marker_processor()`. A marker processor routine must have the signature

```
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in `cinfo->unread_marker`. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return `TRUE` to indicate success. (`FALSE` should be returned only if you are

using a suspending data source and it tells you to suspend. See the standard marker processors in `jdmarker.c` for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling `jpeg_save_markers()`; that method doesn't interfere with the library's own processing of these markers.)

`jpeg_set_marker_processor()` and `jpeg_save_markers()` are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in `djpeg.c`. Also, see `jpegtran.c` for an example of using `jpeg_save_markers`.

Raw (downsampled) image data

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set `jpeg_color_space = in_color_space` (or `jpeg_color_space = out_color_space` for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of `block_size` valid samples, and there must be a multiple of `block_size` sample rows for each component. (For applications such as

conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. Before calling `jpeg_start_compress()`, you must do the following:

- * Set `cinfo->raw_data_in` to `TRUE`. (It is set `FALSE` by `jpeg_set_defaults()`.) This notifies the library that you will be supplying raw data. Furthermore, set `cinfo->do_fancy_downsampling` to `FALSE` if you want to use real downsampled data. (It is set `TRUE` by `jpeg_set_defaults()`.)
- * Ensure `jpeg_color_space` is correct --- an explicit `jpeg_set_colorspace()` call is a good idea. Note that since color conversion is bypassed, `in_color_space` is ignored, except that `jpeg_set_defaults()` uses it to choose the default `jpeg_color_space` setting.
- * Ensure the sampling factors, `cinfo->comp_info[i].h_samp_factor` and `cinfo->comp_info[i].v_samp_factor`, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. The two routines work similarly except that `jpeg_write_raw_data` takes a `JSAMPIMAGE` data array rather than `JSAMPARRAY`. The scanlines count passed to and returned from `jpeg_write_raw_data` is measured in terms of the component with the largest `v_samp_factor`.

`jpeg_write_raw_data()` processes one MCU row per call, which is to say `v_samp_factor*block_size` sample rows of each component. The passed `num_lines` value must be at least `max_v_samp_factor*block_size`, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

```
cinfo->comp_info[i].width_in_blocks*block_size  samples per row
cinfo->comp_info[i].height_in_blocks*block_size rows in image
after jpeg_start_compress() has initialized those fields. If the valid data
is smaller than this, it must be padded appropriately. For some sampling
factors and image sizes, additional dummy DCT blocks are inserted to make
the image a multiple of the MCU dimensions. The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than block_size samples. An example may help here.
Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2  for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1  for Cb
cinfo->comp_info[1].v_samp_factor = 1
```



```
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1
```

and suppose that the nominal image dimensions (`cinfo->image_width` and `cinfo->image_height`) are 101x101 pixels. Then `jpeg_start_compress()` will compute `downsampled_width = 101` and `width_in_blocks = 13` for Y, `downsampled_width = 51` and `width_in_blocks = 7` for Cb and Cr (and the same for the height fields). You must pad the Y data to at least $13*8 = 104$ columns and rows, the Cb/Cr data to at least $7*8 = 56$ columns and rows. The MCU height is `max_v_samp_factor = 2` DCT rows so you must pass at least 16 scanlines on each call to `jpeg_write_raw_data()`, which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of $7*16 = 112$ "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, `jpeg_write_raw_data()` will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set `cinfo->raw_data_out = TRUE` before `jpeg_start_decompress()` (it is set `FALSE` by `jpeg_read_header()`). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set `cinfo->do_fancy_upsampling = FALSE` if you want to get real downsampled data (it is set `TRUE` by `jpeg_read_header()`). Then call `jpeg_read_raw_data()` in place of `jpeg_read_scanlines()`. The decompression process is otherwise the same as usual.

`jpeg_read_raw_data()` returns one MCU row per call, and thus you must pass a buffer of at least `max_v_samp_factor*block_size` scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, `jpeg_read_raw_data()` will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do `jpeg_read_header()` as usual. But instead of calling `jpeg_start_decompress()` and `jpeg_read_scanlines()`, call `jpeg_read_coefficients()`. This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's `access_virt_barray` method (see Memory management, below, and also read `structure.txt`'s discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to `jpeg_write_coefficients()`.

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the `width_in_blocks` and `height_in_blocks` fields of the component's `comp_info` entry.) This is also the data format expected by `jpeg_write_coefficients()`.

When you are done using the virtual arrays, call `jpeg_finish_decompress()` to release the array storage and return the decompression object to an idle state; or just call `jpeg_destroy()` if you don't need to reuse the object.

If you use a suspending data source, `jpeg_read_coefficients()` will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call `jpeg_read_coefficients()` to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call `jpeg_read_coefficients()` after the last `jpeg_finish_output()` call. The arrays will be available for your use until you call `jpeg_finish_decompress()`.

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by `jpeg_read_coefficients()`, or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, `jpeg_write_coefficients()` is substituted for `jpeg_start_compress()` and `jpeg_write_scanlines()`. Thus the sequence is

- * Create compression object
- * Set all compression parameters as necessary
- * Request virtual arrays if needed
- * `jpeg_write_coefficients()`
- * `jpeg_finish_compress()`
- * Destroy or re-use compression object

`jpeg_write_coefficients()` is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to `cinfo.num_components`.

The virtual arrays need only have been requested, not realized, before `jpeg_write_coefficients()` is called. A side-effect of `jpeg_write_coefficients()` is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling `jpeg_write_coefficients()`. The data is actually written out when you call `jpeg_finish_compress()`; `jpeg_write_coefficients()` only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using `jpeg_copy_critical_parameters()`. This routine initializes all the compression parameters to default values (like `jpeg_set_defaults()`), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting `jpeg_finish_decompress()`.

`jpeg_write_coefficients()` marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like `jpeg_start_compress(cinfo, TRUE)`). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call `jpeg_suppress_tables()`, or set the tables' individual `sent_table` flags, between calling `jpeg_write_coefficients()` and `jpeg_finish_compress()`.

Progress monitoring

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see `cjpeg.c` or `djpeg.c`.)

Although you do get control back frequently during the data-transferring pass (the `jpeg_read_scanlines` or `jpeg_write_scanlines` loop), any additional passes will occur inside `jpeg_finish_compress` or `jpeg_start_decompress`; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of `jpeg_read_scanlines` or `jpeg_write_scanlines`, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct `jpeg_progress_mgr`, fill in its `progress_monitor` field with a pointer to your callback routine, and set `cinfo->progress` to point to the struct. The callback will be called whenever `cinfo->progress` is non-NULL. (This pointer is set to NULL by `jpeg_create_compress` or `jpeg_create_decompress`; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime `JPOOL_PERMANENT` will work nicely.) You can use the same callback routine for both compression and decompression.

The `jpeg_progress_mgr` struct contains four fields which are set by the library:

```
long pass_counter; /* work units completed in this pass */
long pass_limit; /* total number of work units in this pass */
int completed_passes; /* passes completed so far */
int total_passes; /* total number of passes expected */
```

During any one pass, `pass_counter` increases from 0 up to (not including) `pass_limit`; the step size is usually but not necessarily 1. The `pass_limit` value may change from one pass to another. The expected total number of passes is in `total_passes`, and the number of passes already completed is in `completed_passes`. Thus the fraction of work completed may be estimated as

$$\frac{\text{completed_passes} + (\text{pass_counter}/\text{pass_limit})}{\text{total_passes}}$$

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, `pass_limit` can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets `total_passes` based on the assumption that there will be one more output pass if the input file end hasn't yet been read (`jpeg_input_complete()` isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that `total_passes` will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read `structure.txt`'s section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use `malloc()` and `free()` for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by `jpeg_finish_compress`, `jpeg_finish_decompress`, or `jpeg_abort`. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use `JPOOL_PERMANENT` to get storage that lasts as long as the JPEG object. Use `alloc_large` instead of `alloc_small` for anything bigger than a few Kbytes. There are also `alloc_sarray` and `alloc_barray` routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (`jmemnobs.c`), then no temporary files are used; virtual arrays are simply `malloc()`'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on

Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting `cinfo->mem->max_memory_to_use` after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before `jpeg_start_compress()` or `jpeg_start_decompress()` in order to have them counted against the max memory limit. Also keep in mind that space allocated with `alloc_small()` is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting `max_memory_to_use`.

If you use the `jmemname.c` or `jmemdos.c` memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with `jmemdos.c`, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either `jpeg_abort()` or `jpeg_destroy()` for any active JPEG objects. A handler is not needed with `jmemnobs.c`, and shouldn't be necessary with `jmemansi.c` or `jmemmac.c` either, since the C library is supposed to take care of deleting files made with `tmpfile()`.

Memory usage

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:

1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a

128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use `jmemnobs` and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the `MEM_STATS` code in `jmemmgr.c`.

Library compile-time options

A number of compile-time options are available by modifying `jmorecfg.h`.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining `BITS_IN_JSAMPLE` as 8, 9, 10, 11, or 12.

Note that a value larger than 8 causes `JSAMPLE` to be larger than a char, so it affects the surrounding application's image data.

The sample applications `cjpeg` and `djpeg` can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit `cjpeg` or `djpeg`. (`install.txt` has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (`jpegtran`) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining `NEED_SHORT_EXTERNAL_NAMES` for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to

hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too.

See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

char is at least 8 bits wide

short is at least 16 bits wide

int is at least 16 bits wide

long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared

"far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):

`*/opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/libjpeg.txt`

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:

A "component" means a color channel, e.g., Red or Luminance.

A "sample" is a single component value (i.e., one number in the image data).

A "coefficient" is a frequency coefficient (a DCT transform output number).

A "block" is an array of samples or coefficients.

An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:

- * A subroutine library for JPEG compression and decompression.

- * cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. The library does not support the hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more

compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.
2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.
3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents

compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:

- * Color space conversion (e.g., RGB to YCbCr).
- * Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:

- * MCU assembly, DCT, quantization.
- * Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:

- * Entropy decoding (sequential or progressive, Huffman or arithmetic).
- * Dequantization, inverse DCT, MCU disassembly.

Postprocessing:

- * Upsampling. Optionally, this step may be able to do more general rescaling of the image.
- * Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [currently it does not].
- * Optional color quantization (e.g., reduction to 256 colors).
- * Optional color precision reduction (e.g., 24-bit to 15-bit color).

[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we

fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see `jdatadst.c`, which implements the external interface specified by struct `jpeg_destination_mgr`, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules

consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing.

The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself

appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
      |           |           |
      ----- controller -----
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required.

The control module determines which kind of buffer is used and manipulates

virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```

                                |-- Colospace conversion
|-- Preprocessing controller --|
|                                |-- Downsampling
Main controller --|
|                                |-- Forward DCT, quantize
|-- Coefficient controller --|
                                |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

- * Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.
- * Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colospace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.
- * Colospace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.
- * Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as V_{max} pixel rows of each component before downsampling, and V_k sample rows afterwards (remember V_k

differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of `block_size` samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of `block_size` rows).

* Coefficient controller: buffer controller for the DCT-coefficient data.

This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients.

Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the

coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages;

determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

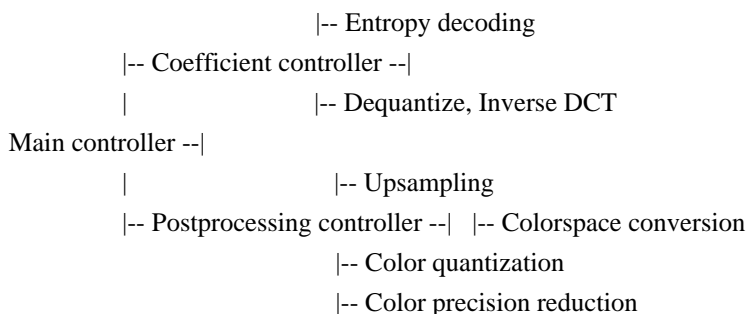
* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:



As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support

progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

- * Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.
- * Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.
- * Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.
- * Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.
- * Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.
- * Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.
- * Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

- * Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: `jdinput.c` controls only input-side processing, while `jdmaster.c` handles overall initialization and output-side control.
- * Marker reading: decodes JPEG markers (except for RSTn).
- * Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a `stdio` stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.
- * Memory manager: same as for compression library.
- * Error handler: same as for compression library.
- * Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.
2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls `jpeg_consume_input()`; otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass

can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. `jpeg_consume_input()` is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the `cinfo` data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
```

The basic element type `JSAMPLE` will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of `JSAMPLE` values must be coded as `GETJSAMPLE(value)`, where the macro will be defined as `"((value) & 0xFF)"` on signed-char machines and `"((int) (value))"` elsewhere.

With these conventions, `JSAMPLE` values can be assumed to be ≥ 0 . This helps

simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

- * Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
- * Indexing doesn't require multiplication; this is a performance win on many machines.
- * Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
- * The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```
typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKS, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we

recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does **not** cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling `jpeg_finish_compress()` will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever `malloc/free` are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

- * `JPOOL_PERMANENT` lasts until master record is destroyed
- * `JPOOL_IMAGE` lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, `JPOOL_PASS` = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:

- * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
- * Pool allocation heuristics may differ for large and small objects.

Note that individual "large" objects cannot exceed the size allowed by `type size_t`, which may be 64K or less on some machines.

3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their `jinit_XXX` routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. `realize_virt_arrays` will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the `realize_virt_arrays` computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing `realize_virt_arrays` to decide that it can allocate all

the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines
(or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object

(specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). `jpeg_open_backing_store` is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call `self_destruct` (typically via `jpeg_destroy`) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:

1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan.

This would solve the space problems if the overestimate wasn't too great.

However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:

1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/structure.txt

No license file was found, but licenses were detected in source scan.

/*

* jddctmgr.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2002-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the inverse-DCT management logic.

* This code selects a particular IDCT implementation to be used,

* and it performs related housekeeping chores. No code in this file

* is executed per IDCT step, only during output pass setup.

*

* Note that the IDCT routines are responsible for performing coefficient

* dequantization as well as the IDCT proper. This module sets up the

* dequantization multiplier table needed by the IDCT routine.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jddctmgr.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jdmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */
```

Found in path(s):

```
*/opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdmainct.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009-2017 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
```

** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdppm.c
No license file was found, but licenses were detected in source scan.

/*

* jdmarker.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2009-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to decode JPEG datastream markers.

* Most of the complexity arises from our desire to support input

* suspension: if not all of the data for a marker is available,

* we must exit back to the application. On resumption, we reprocess

* the marker.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*

* cjpeg.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2003-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a command-line user interface for the JPEG compressor.

* It should work on any system with Unix- or MS-DOS-style command lines.

*

* Two different command line styles are permitted, depending on the

* compile-time switch `TWO_FILE_COMMANDLINE`:

* `cjpeg [options] inputfile outputfile`

* `cjpeg [options] [inputfile]`

* In the second style, output is always to standard output, which you'd

* normally redirect to a file or pipe to some other program. Input is

* either from a named file or from standard input (typically redirected).

* The second style is convenient on Unix but is unhelpful on systems that

- * don't support pipes. Also, you MUST use the first style if your system
- * doesn't do binary I/O to stdin/stdout.
- * To simplify script writing, the "-outfile" switch is provided. The syntax
- * cjpeg [options] -outfile outputfile inputfile
- * works regardless of which command line style is used.
- */

Found in path(s):

- * /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/cjpeg.c

No license file was found, but licenses were detected in source scan.

/*

- * transupp.c

/*

- * Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
- * This file is part of the Independent JPEG Group's software.
- * For conditions of distribution and use, see the accompanying README file.

/*

- * This file contains image transformation routines and other utility code
- * used by the jpegtran sample application. These are NOT part of the core
- * JPEG library. But we keep these routines separate from jpegtran.c to
- * ease the task of maintaining jpegtran-like programs that have other user
- * interfaces.

*/

Found in path(s):

- * /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/transupp.c

No license file was found, but licenses were detected in source scan.

/*

- * cderror.h

/*

- * Copyright (C) 1994-1997, Thomas G. Lane.
- * Modified 2009-2017 by Guido Vollbeding.
- * This file is part of the Independent JPEG Group's software.
- * For conditions of distribution and use, see the accompanying README file.

/*

- * This file defines the error and message codes for the cjpeg/djpeg
- * applications. These strings are not needed as part of the JPEG library
- * proper.
- * Edit this file to add new codes, or to translate the message strings to
- * some other language.

*/

Found in path(s):

- * /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/cderror.h

No license file was found, but licenses were detected in source scan.

```
/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * Modified 2000-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 */
```

Found in path(s):

```
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdtrans.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jdatadst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */
```

Found in path(s):

```
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdatadst.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jmemdos.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides an MS-DOS-compatible implementation of the system-
 * dependent portion of the JPEG memory manager. Temporary data can be
 * stored in extended or expanded memory as well as in regular DOS files.
 */
```

*
* If you use this file, you must be sure that NEED_FAR_POINTERS is defined
* if you compile in a small-data memory model; it should NOT be defined if
* you use a large-data memory model. This file is not recommended if you
* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than
* 2-byte boundaries.
*
* Based on code contributed by Ge' Weijers.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemdos.c
No license file was found, but licenses were detected in source scan.

/*
* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
*
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
* jdcoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2002-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.

*
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*

* jdcoeff.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines.
* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdhuff.c
No license file was found, but licenses were detected in source scan.

/*

* jfdctfst.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2003-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for

* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jfdctfst.c

No license file was found, but licenses were detected in source scan.

/*

* jcdctmgr.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2003-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the forward-DCT management logic.

* This code selects a particular DCT implementation to be used,

* and it performs related housekeeping chores including coefficient

* quantization.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcdctmgr.c

No license file was found, but licenses were detected in source scan.

/*

* jquant1.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2011 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains 1-pass color quantization (color mapping) routines.

* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jquant1.c

No license file was found, but licenses were detected in source scan.

/*

* rdcolmap.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file implements djpeg's "-map file" switch. It reads a source image

* and constructs a colormap to be supplied to the JPEG decompressor.

*

* Currently, these file formats are supported for the map file:

* GIF: the contents of the GIF's global colormap are used.

* PPM (either text or raw flavor): the entire file is read and

* each unique pixel value is entered in the map.

* Note that reading a large PPM file will be horrendously slow.

* Typically, a PPM-format map file should contain just one pixel

* of each desired color. Such a file can be extracted from an

* ordinary image PPM file with ppmtomap(1).

*

* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not

* currently implemented.

*/

/* Portions of this code are based on the PBMPLUS library, which is:

**

** Copyright (C) 1988 by Jef Poskanzer.

**

** Permission to use, copy, modify, and distribute this software and its

** documentation for any purpose and without fee is hereby granted, provided

** that the above copyright notice appear in all copies and that both that

** copyright notice and this permission notice appear in supporting

** documentation. This software is provided "as is" without express or

** implied warranty.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdcolmap.c

No license file was found, but licenses were detected in source scan.

/*

* jconfig.txt

```

*
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
*
* The actual configuration options for a particular installation are stored
* in jconfig.h.  On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply.  But if
* you need to generate a jconfig.h file by hand, this file tells you how.
*
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.

```

```

*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */

```



```

typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
 */

#ifndef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
 */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 * Other applications can ignore these.
 */

#ifndef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command

```

```
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
```

```
*/
```

```
#undef TWO_FILE_COMMANDLINE
```

```
/* Define this if your system needs explicit cleanup of temporary files.
```

```
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
```

```
*/
```

```
#undef NEED_SIGNAL_CATCHER
```

```
/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
```

```
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
```

```
*/
```

```
#undef DONT_USE_B_MODE
```

```
/* Define this if you want percent-done progress reports from cjpeg/djpeg.
```

```
*/
```

```
#undef PROGRESS_REPORT
```

```
#endif /* JPEG_CJPEG_DJPEG */
```

Found in path(s):

```
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jconfig.txt
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* jdsample.c
```

```
/*
```

```
* Copyright (C) 1991-1996, Thomas G. Lane.
```

```
* Modified 2002-2015 by Guido Vollbeding.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
/*
```

```
* This file contains upsampling routines.
```

```
/*
```

```
* Upsampling input data is counted in "row groups". A row group
```

```
* is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
```

```
* sample rows of each component. Upsampling will normally produce
```

```
* max_v_samp_factor pixel rows from each row group (but this could vary
```

```
* if the upsampler is applying a scale factor of its own).
```

```
/*
```

```
* An excellent reference for image resampling is
```

```
* Digital Image Warping, George Wolberg, 1990.
```

* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdsample.c

No license file was found, but licenses were detected in source scan.

/*

* jcmaster.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2003-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains master control logic for the JPEG compressor.

* These routines are concerned with parameter validation, initial setup,

* and inter-pass control (determining the number of passes and the work

* to be done in each pass).

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcmaster.c

No license file was found, but licenses were detected in source scan.

/*

* jdct.h

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2002-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This include file contains common declarations for the forward and

* inverse DCT modules. These declarations are private to the DCT managers

* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.

* The individual DCT algorithms are kept in separate files to ease

* machine-dependent tuning (e.g., assembly coding).

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdct.h

No license file was found, but licenses were detected in source scan.

/*

* jdcolor.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2011-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2003-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2015-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in GIF format.
*

* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files. *
* There is no trace of the LZW algorithm in this file. *

*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/

```
/*
 * This code is loosely based on ppmtogif from the PBMPLUS distribution
 * of Feb. 1991. That file contains the following copyright notice:
 * Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
 * Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
 * Copyright (C) 1989 by Jef Poskanzer.
 * Permission to use, copy, modify, and distribute this software and its
 * documentation for any purpose and without fee is hereby granted, provided
 * that the above copyright notice appear in all copies and that both that
 * copyright notice and this permission notice appear in supporting
 * documentation. This software is provided "as is" without express or
 * implied warranty.
 *
 * We are also required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
 */
```

Found in path(s):

```
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrgif.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2015-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 *
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
```

* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jidctfst.c
No license file was found, but licenses were detected in source scan.

/*

* jpegtran.c

*

* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*

* jccolor.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

*

* This file contains input colorspace conversion routines.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jccolor.c
No license file was found, but licenses were detected in source scan.

/*

* wrbmp.c

*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrbmp.c
No license file was found, but licenses were detected in source scan.

/*
* jmemmac.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* jmemmac.c provides an Apple Macintosh implementation of the system-
* dependent portion of the JPEG memory manager.
*
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
*
* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
* instead of malloc and free. It accurately determines the amount of
* memory available by using CompactMem. Notice that if left to its
* own devices, this code can chew up all available space in the
* application's zone, with the exception of the rather small "slop"
* factor computed in jpeg_mem_available(). The application can ensure
* that more space is left over by reducing max_memory_to_use.
*
* Large images are swapped to disk using temporary files and System 7.0+'s
* temporary folder functionality.
*
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.

```

* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7. (If no temporary files
* are created, it will run fine.)
*
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls. You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
*
* FSpDelete  -> HDelete
* FSpGetFInfo -> HGetFInfo
* FSpCreate  -> HCreate
* FSpOpenDF  -> HOpen   *** Note: not HOpenDF ***
* FSMakeFSSpec -> (fill in spec by hand.)
*
* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*/

```

Found in path(s):

```

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemmac.c
No license file was found, but licenses were detected in source scan.

```

```

/*
* jmemmgr.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011-2012 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the JPEG system-independent memory management
* routines. This code is usable across a wide variety of machines; most
* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
* * pool-based allocation and freeing of memory;
* * policy decisions about how to divide available memory among the
*   virtual arrays;
* * control logic for swapping virtual arrays between main memory and
*   backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total

```


* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemmgr.c

No license file was found, but licenses were detected in source scan.

/*

* rdtarga.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to read input images in Targa format.

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume input from

* an ordinary stdio stream. They further assume that reading begins

* at the start of the file; start_input may need work if the

* user interface has already read some data (e.g., to determine that

* the file is indeed Targa format).

*

* Based on code contributed by Lee Daniel Crocker.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdtarga.c

No license file was found, but licenses were detected in source scan.

/*

* cdjpeg.h

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains common declarations for the sample applications

* cjpeg and djpeg. It is NOT used by the core JPEG library.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/cdjpeg.h

No license file was found, but licenses were detected in source scan.

/*

* wrtarga.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2015-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write output images in Targa format.

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*

* Based on code contributed by Lee Daniel Crocker.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrtarga.c

No license file was found, but licenses were detected in source scan.

/*

* wrjpgcom.c

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* Modified 2015-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a very simple stand-alone application that inserts

* user-supplied text as a COM (comment) marker in a JFIF file.

* This may be useful as an example of the minimum logic needed to parse

* JPEG markers.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrjpgcom.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The distribution includes the JPEG library proper, plus two application programs ("cjpeg" and "djpeg") which use the library to convert JPEG files to and from some other popular image formats. A third application "jpegtran" uses the library to do lossless conversion between different variants of JPEG. There are also two stand-alone applications, "rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY

=====

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference system include files.
jpegint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jscapimin.c Application program interface: core routines for compression.
jscapistd.c Application program interface: standard compression.
jdcapimin.c Application program interface: core routines for decompression.
jdcapistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression

and decompression.

jcparam.c Compression parameter setting helper routines.

jctrans.c API and library routines for transcoding compression.

jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.

jcmaster.c Master control: setup and inter-pass sequencing logic.

jcmainct.c Main buffer controller (preprocessor => JPEG compressor).

jcprepct.c Preprocessor buffer controller.

jccoefct.c Buffer controller for DCT coefficient buffer.

jccolor.c Color space conversion.

jcsample.c Downsampling.

jdctmgr.c DCT manager (DCT implementation selection & control).

jfdctint.c Forward DCT using slow-but-accurate integer method.

jfdctfst.c Forward DCT using faster, less accurate integer method.

jfdctflt.c Forward DCT using floating-point arithmetic.

jchuff.c Huffman entropy coding.

jcarith.c Arithmetic entropy coding.

jcmarker.c JPEG marker writing.

jdatadst.c Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.

jdinput.c Input controller: controls input processing modules.

jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).

jdcoefct.c Buffer controller for DCT coefficient buffer.

jdpostct.c Postprocessor buffer controller.

jdmarker.c JPEG marker reading.

jd Huff.c Huffman entropy decoding.

jdarith.c Arithmetic entropy decoding.

jdctmgr.c IDCT manager (IDCT implementation selection & control).

jidctint.c Inverse DCT using slow-but-accurate integer method.

jidctfst.c Inverse DCT using faster, less accurate integer method.

jidctflt.c Inverse DCT using floating-point arithmetic.

jdsample.c Upsampling.

jdcolor.c Color space conversion.

jdmerge.c Merged upsampling/color conversion (faster, lower quality).

jquant1.c One-pass color quantization using a fixed-spacing colormap.

jquant2.c Two-pass color quantization using a custom-generated colormap.

Also handles one-pass quantization to an externally given map.

jdatasrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c Tables for common use in arithmetic entropy encoding and

decoding routines.

jerror.c Standard error handling routines (application replaceable).

jmemmgr.c System-independent (more or less) memory management code.

jutils.c Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs.c "No backing store": assumes adequate virtual memory exists.

jmemansi.c Makes temporary files with ANSI-standard routine tmpfile().

jmemname.c Makes temporary files with program-generated file names.

jmemdos.c Custom implementation for MS-DOS (16-bit environment only):
can use extended and expanded memory as well as temp files.

jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use).

On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

=====

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.

cderror.h Additional error and trace message codes for cjpeg et al.

transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.

djpeg.c Main program for djpeg.

jpegtran.c Main program for jpegtran.

cdjpeg.c Utility routines used by all three programs.

rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.

rdswitch.c Code to process some of cjpeg's more complex switches.

Also used by jpegtran.

transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).
rdppm.c PPM/PGM file input.
rdrlc.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
wrppm.c PPM/PGM file output.
wrrlc.c Utah RLE file output.
wrtarga.c Targa file output.

RDJPGCOM/WRJPGCOM

=====

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use
jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES

=====

Documentation (see README for a guide to the documentation files):

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.
configure.ac Source file for use with Autoconf to generate configure.
ltmain.sh Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp

missing
ar-lib
compile
install-sh Install shell script for those Unix systems lacking one.
Makefile.in Makefile input for configure.
Makefile.am Source file for use with Automake to generate Makefile.in.
ckconfig.c Program to generate jconfig.h on non-Unix systems.
jconfig.txt Template for making jconfig.h by hand.
mak*.* Sample makefiles for particular systems.
jconfig.* Sample jconfig.h for particular systems.
libjpeg.map Script to generate shared library with versioned symbols.
libjpeg.pc.in libjpeg.pc pkg-config file input for configure.
aclocal.m4 M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*.* Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/filelist.txt
No license file was found, but licenses were detected in source scan.

/*

* jfdctflt.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2003-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a floating-point implementation of the

* forward DCT (Discrete Cosine Transform).

*

* This implementation should be more accurate than either of the integer

* DCT implementations. However, it may not give the same results on all

* machines because of differences in roundoff behavior. Speed will depend

* on the hardware's floating point capacity.

*

* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT

* on each column. Direct algorithms are also available, but they are

* much more complex and seem not to be any faster when reduced to code.

*

* This implementation is based on Arai, Agui, and Nakajima's algorithm for

* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in

* Japanese, but the algorithm is described in the Pennebaker & Mitchell

* JPEG textbook (see REFERENCES section in file README). The following code

* is based directly on figure 4-8 in P&M.

- * While an 8-point DCT cannot be done in less than 11 multiplies, it is
- * possible to arrange the computation so that many of the multiplies are
- * simple scalings of the final outputs. These multiplies can then be
- * folded into the multiplications or divisions by the JPEG quantization
- * table entries. The AA&N method leaves only 5 multiplies and 29 adds
- * to be done in the DCT itself.
- * The primary disadvantage of this method is that with a fixed-point
- * implementation, accuracy is lost due to imprecise representation of the
- * scaled quantization values. However, that problem does not arise if
- * we use floating point arithmetic.
- */

Found in path(s):

*/opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jfdctflt.c

No license file was found, but licenses were detected in source scan.

/*

* jdmerge.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2013-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains code for merged upsampling/color conversion.

*

* This file combines functions from jdsample.c and jdcolor.c;

* read those files first to understand what's going on.

*

* When the chroma components are to be upsampled by simple replication

* (ie, box filtering), we can save some work in color conversion by

* calculating all the output pixels corresponding to a pair of chroma

* samples at one time. In the conversion equations

* $R = Y + K1 * Cr$

* $G = Y + K2 * Cb + K3 * Cr$

* $B = Y + K4 * Cb$

* only the Y term varies among the group of pixels corresponding to a pair

* of chroma samples, so the rest of the terms can be calculated just once.

* At typical sampling ratios, this eliminates half or three-quarters of the

* multiplications needed for color conversion.

*

* This file currently provides implementations for the following cases:

* YCC => RGB color conversion only (YCbCr or BG_YCC).

* Sampling ratios of 2h1v or 2h2v.

* No scaling needed at upsample time.

* Corner-aligned (non-CCIR601) sampling alignment.

* Other special cases could be added, but in most applications these are

* the only common cases. (For uncommon cases we fall back on the more

* general code in jdsample.c and jdcolor.c.)

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdmerge.c

No license file was found, but licenses were detected in source scan.

/*

* jdarith.c

*

* Developed 1997-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains portable arithmetic entropy decoding routines for JPEG

* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).

*

* Both sequential and progressive modes are supported in this single module.

*

* Suspension is not currently supported in this module.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdarith.c

No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software

=====

README for release 9c of 14-Jan-2018

=====

This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP

=====

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

=====

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES

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In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

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- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES

=====

We recommend reading one or more of these references before trying to

understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this

document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany. IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsrc.v9c.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr9c.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS

=====

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

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Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

=====

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes

(see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.

IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing,

willing and intentional consent made by contract or accommodation agreement.

IIG expresses that which already was.

The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.

IIG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.

More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/README

No license file was found, but licenses were detected in source scan.

/*

* jdapimin.c

*

* Copyright (C) 1994-1998, Thomas G. Lane.

* Modified 2009-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains application interface code for the decompression half

* of the JPEG library. These are the "minimum" API routines that may be

* needed in either the normal full-decompression case or the

* transcoding-only case.

*

* Most of the routines intended to be called directly by an application

* are in this file or in jdapistd.c. But also see jcomapi.c for routines

* shared by compression and decompression, and jdtrans.c for the transcoding

* case.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdapimin.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file defines the interface between the system-independent
 * and system-dependent portions of the JPEG memory manager. No other
 * modules need include it. (The system-independent portion is jmemmgr.c;
 * there are several different versions of the system-dependent portion.)
 *
 * This file works as-is for the system-dependent memory managers supplied
 * in the IJG distribution. You may need to modify it if you write a
 * custom memory manager. If system-dependent changes are needed in
 * this file, the best method is to #ifdef them based on a configuration
 * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
 * and USE_MAC_MEMMGR.
 */
```

Found in path(s):

```
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemsys.h
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modification developed 2003-2015 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
```

*
* We also provide FDCT routines with various input sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
*
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
*
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*

* rdrle.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to read input images in Utah RLE format.

* The Utah Raster Toolkit library is required (version 3.1 or later).

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume input from

* an ordinary stdio stream. They further assume that reading begins

* at the start of the file; start_input may need work if the

* user interface has already read some data (e.g., to determine that

* the file is indeed RLE format).

*

* Based on code contributed by Mike Lijewski,

* with updates from Robert Hutchinson.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdrle.c
No license file was found, but licenses were detected in source scan.

```
/*
 * rdswitch.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2003-2015 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables file Read quantization tables from text file
 * -scans file Read scan script from text file
 * -quality N[,N,...] Set quality ratings
 * -qslots N[,N,...] Set component quantization table selectors
 * -sample HxV[,HxV,...] Set component sampling factors
 */
```

Found in path(s):

```
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdswitch.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * djpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009-2015 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djpeg [options] inputfile outputfile
 * djpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * djpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */
```

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/djpeg.c

No license file was found, but licenses were detected in source scan.

/*

* jpeglib.h

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2002-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file defines the application interface for the JPEG library.

* Most applications using the library need only include this file,

* and perhaps jerror.h if they want to know the exact error codes.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jpeglib.h

No license file was found, but licenses were detected in source scan.

/*

* jmorecfg.h

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 1997-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains additional configuration options that customize the

* JPEG software for special applications or support machine-dependent

* optimizations. Most users will not need to touch this file.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmorecfg.h

No license file was found, but licenses were detected in source scan.

/*

* jcarith.c

*

* Developed 1997-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains portable arithmetic entropy encoding routines for JPEG

* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).

*

* Both sequential and progressive modes are supported in this single module.

*
* Suspension is not currently supported in this module.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcarith.c
No license file was found, but licenses were detected in source scan.

/*

* jerror.h

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* Modified 1997-2012 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file defines the error and message codes for the JPEG library.

* Edit this file to add new codes, or to translate the message strings to

* some other language.

* A set of error-reporting macros are defined too. Some applications using

* the JPEG library may wish to include this file to get the error codes

* and/or the macros.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jerror.h
No license file was found, but licenses were detected in source scan.

/*

* wrtle.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write output images in RLE format.

* The Utah Raster Toolkit library is required (version 3.1 or later).

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*

* Based on code contributed by Mike Lijewski,

* with updates from Robert Hutchinson.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrrle.c

No license file was found, but licenses were detected in source scan.

/*

* jinclude.h

*

* Copyright (C) 1991-1994, Thomas G. Lane.

* Modified 2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file exists to provide a single place to fix any problems with

* including the wrong system include files. (Common problems are taken

* care of by the standard jconfig symbols, but on really weird systems

* you may have to edit this file.)

*

* NOTE: this file is NOT intended to be included by applications using the

* JPEG library. Most applications need only include jpeglib.h.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jinclude.h

No license file was found, but licenses were detected in source scan.

/*

* jmemansi.c

*

* Copyright (C) 1992-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file provides a simple generic implementation of the system-

* dependent portion of the JPEG memory manager. This implementation

* assumes that you have the ANSI-standard library routine tmpfile().

* Also, the problem of determining the amount of memory available

* is shoved onto the user.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemansi.c

No license file was found, but licenses were detected in source scan.

/*

* jcomapi.c

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*
* This file contains application interface routines that are used for both
* compression and decompression.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*

* jmemnobs.c

*

* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*

* jctrans.c

*

* Copyright (C) 1995-1998, Thomas G. Lane.
* Modified 2000-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jctrans.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see `jpeg/doc/cstyle.ms.tbl.Z`, or `cstyle.txt.Z` for those without `nroff/tbl`).

Block comments should be laid out thusly:

```
/*  
 * Block comments in this style.  
*/
```

We indent statements in K&R style, e.g.,

```
if (test) {  
    then-part;  
} else {  
    else-part;  
}
```

with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., `multi_word_name` (not `multiWordName`). Preprocessor symbols and enum constants are similar but upper case (`MULTI_WORD_NAME`). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). `ansi2knr` is not very bright, so it imposes a format requirement on function declarations: the function name **MUST BEGIN IN COLUMN 1**. Thus all functions should be written in the following style:

```
LOCAL(int *)  
function_name (int a, char *b)  
{  
    code...
```

```
}
```

Note that each function definition must begin with `GLOBAL(type)`, `LOCAL(type)`, or `METHODDEF(type)`. These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

`ansi2knr` does not transform method declarations (function pointers in structs). We handle these with a macro `JMETHOD`, defined as

```
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
```

which is used like this:

```
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the `EXTERN` and `JPP` macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the `sizeof()` operator is defined to return `int`, yet `size_t` is defined as `long`. Needless to say, this is brain-damaged. Always use the `SIZEOF()` macro in place of `sizeof()`, so that the result is guaranteed to be of type `size_t`.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.
2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an

abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/coderules.txt

No license file was found, but licenses were detected in source scan.

/*

* jcparam.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2003-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains optional default-setting code for the JPEG compressor.

* Applications do not have to use this file, but those that don't use it

* must know a lot more about the innards of the JPEG code.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcparam.c

No license file was found, but licenses were detected in source scan.

/*

* jcinit.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2003-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
*
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcinit.c

No license file was found, but licenses were detected in source scan.

/*

* jversion.h

*

* Copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*

* This file contains software version identification.

*/

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jversion.h

No license file was found, but licenses were detected in source scan.

/*

* jcsample.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*

* This file contains downsampling routines.

*

* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*

*

* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is

- * allocated wide enough to correspond to the desired output width).
- * The caller (the prep controller) is responsible for vertical padding.
- *
- * The downsampler may request "context rows" by setting need_context_rows
- * during startup. In this case, the input arrays will contain at least
- * one row group's worth of pixels above and below the passed-in data;
- * the caller will create dummy rows at image top and bottom by replicating
- * the first or last real pixel row.
- *
- * An excellent reference for image resampling is
- * Digital Image Warping, George Wolberg, 1990.
- * Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
- *
- * The downsampling algorithm used here is a simple average of the source
- * pixels covered by the output pixel. The hi-falutin sampling literature
- * refers to this as a "box filter". In general the characteristics of a box
- * filter are not very good, but for the specific cases we normally use (1:1
- * and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
- * nearly so bad. If you intend to use other sampling ratios, you'd be well
- * advised to improve this code.
- *
- * A simple input-smoothing capability is provided. This is mainly intended
- * for cleaning up color-dithered GIF input files (if you find it inadequate,
- * we suggest using an external filtering program such as pnmconvol). When
- * enabled, each input pixel P is replaced by a weighted sum of itself and its
- * eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
- * where SF = (smoothing_factor / 1024).
- * Currently, smoothing is only supported for 2h2v sampling factors.
- */

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/*

* jdatasrc.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

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*

* This file contains decompression data source routines for the case of

* reading JPEG data from memory or from a file (or any stdio stream).

* While these routines are sufficient for most applications,

* some will want to use a different source manager.

* IMPORTANT: we assume that fread() will correctly transcribe an array of

* JOCTETs from 8-bit-wide elements on external storage. If char is wider

* than 8 bits on your machine, you may need to do some tweaking.

*/

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/*

* cdjpeg.c

*

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*

* This file contains common support routines used by the IJG application

* programs (cjpeg, djpeg, jpegtran).

*/

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/*

* jquant2.c

*

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*

* This file contains 2-pass color quantization (color mapping) routines.

* These routines provide selection of a custom color map for an image,

* followed by mapping of the image to that color map, with optional

* Floyd-Steinberg dithering.

* It is also possible to use just the second pass to map to an arbitrary

* externally-given color map.

*

* Note: ordered dithering is not supported, since there isn't any fast

* way to compute intercolor distances; it's unclear that ordered dither's

* fundamental assumptions even hold with an irregularly spaced color map.

*/

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/*

* jcapimin.c

*
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* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

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/*

* jdinput.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
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*
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuft.c, and jdarith.c.
*/

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/*

* rdjpgcom.c

*

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*
* This file contains a very simple stand-alone application that displays

* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

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/*

* transupp.h

*

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*

* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.

*

* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.

*/

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* rdgif.c

*

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*

* This file contains routines to read input images in GIF format.

*

* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that. *

*

* We are required to state that

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* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
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* wrppm.c

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*

* This file contains routines to write output images in PPM/PGM format.

* The extended 2-byte-per-sample raw PPM/PGM formats are supported.

* The PBMPLUS library is NOT required to compile this software

* (but it is highly useful as a set of PPM image manipulation programs).

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*/

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1.962 json-simple 1.1

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1.964 jna-platform 5.9.0

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- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbBase.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbPropertyPutStub.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbConst.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbParameterNotFoundException.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbFunctionVTable.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbDispInterface.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbEnum.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/COMUtils.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbCoClass.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbInterface.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbPropertyPut.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbCmdlineArgs.java

* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/TypeInfoUtil.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/TlbImp.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbFunctionDispId.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/COMInvoker.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/TypeLibUtil.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbAbstractMethod.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbPropertyGet.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbFunctionStub.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbPropertyGetStub.java
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// MessageId: ERROR_DS_CONFIDENTIALITY_REQUIRED
// version.
```

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```
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jar/com/sun/jna/platform/win32/WinError.java
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* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/NTStatus.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/WinNT.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/FileUtils.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/KeyboardUtils.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/dnd/GhostedDragImage.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/dnd/DropHandler.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/LMErr.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/W32FileMonitor.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/dnd/DropTargetPainter.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/W32FileUtils.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/unix/X11.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/GDI32.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/FileMonitor.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/Wincon.java

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* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-
jar/com/sun/jna/platform/unix/Resource.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-
jar/com/sun/jna/platform/unix/Reboot.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-
jar/com/sun/jna/platform/unix/LibC.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-
jar/com/sun/jna/platform/win32/PdhMsg.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-
jar/com/sun/jna/platform/win32/Pdh.java

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* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/PdhUtil.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/WbemcliUtil.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/Cfgmgr32.java

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* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/HighLevelMonitorConfigurationAPI.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/Dxva2.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/EnumUtils.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/LowLevelMonitorConfigurationAPI.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/EnumConverter.java

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jar/com/sun/jna/platform/win32/COM/Dispatch.java
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jar/com/sun/jna/platform/win32/COM/IUnknown.java
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jar/com/sun/jna/platform/win32/COM/COMBindingBaseObject.java
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jar/com/sun/jna/platform/win32/COM/ITypeInfo.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-
jar/com/sun/jna/platform/win32/COM/TypeComp.java
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jar/com/sun/jna/platform/win32/COM/TypeLib.java
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jar/com/sun/jna/platform/win32/COM/RecordInfo.java
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jar/com/sun/jna/platform/win32/OleAuto.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-
jar/com/sun/jna/platform/win32/COM/ITypeLib.java
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jar/com/sun/jna/platform/unix/solaris/LibKstat.java

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- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/linux/Mman.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/unix/aix/SharedObjectLoader.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/linux/Udev.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/linux/LibRT.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/unix/aix/Perfstat.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/linux/Fcntl.java
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- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/Shlwapi.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/OaIdl.java
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- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/SetupApi.java
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* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/OpenGL32.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/wince/CoreDLL.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/Rasapi32Util.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/Rasapi32.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/GL.java
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Found in path(s):

- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/IRunningObjectTable.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/annotation/ComEventCallback.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/Convert.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/UnknownVTable.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/ComEventCallbackCookie.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/ConnectionPoint.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/IRawDispatchHandle.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/IDispatchCallback.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/ConnectionPointContainer.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/annotation/ComObject.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/IPersistStream.java
- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/IMoniker.java

* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/EnumMoniker.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/DispatchListener.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/IUnknownCallback.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/annotation/ComMethod.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/AbstractComEventCallbackListener.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/IUnknown.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/annotation/ComProperty.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/EnumMoniker.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/ProxyObject.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/Moniker.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/IPersist.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/IStream.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/IConnectionPointContainer.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/IComEventCallbackCookie.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/IConnectionPoint.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/IRunningObjectTable.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/IComEnum.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/IDispatch.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/RunningObjectTable.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/IConnectionPoint.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/UnknownListener.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/Factory.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/CallbackProxy.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/IComEventCallbackListener.java

* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/ComThread.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/DispatchVTable.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/IConnectionPointContainer.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/annotation/ComInterface.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/util/ObjectFactory.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/IEnumMoniker.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/RunningObjectTable.java

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* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/W32ServiceManager.java

* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/W32Service.java

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jar/com/sun/jna/platform/win32/COM/package.html

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 * Supports privacy (confidentiality)
 */
```

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```
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jar/com/sun/jna/platform/win32/Sspi.java
```

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*/
```

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```
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jar/com/sun/jna/platform/win32/Cryptui.java
```

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jar/com/sun/jna/platform/mac/XAttr.java

* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-
jar/com/sun/jna/platform/mac/XAttrUtil.java

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jar/com/sun/jna/platform/win32/PowrProf.java

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* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/COMInvokeException.java

* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/IEnumVariant.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/Winsock2.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/ShTypes.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/COM/IComEnumVariantIterator.java

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/**

* <code>

BOOL WINAPI CreateProcessWithLogonW(

 In LPCWSTR lpUsername,

 _In_opt_ LPCWSTR lpDomain,

 In LPCWSTR lpPassword,

 In DWORD dwLogonFlags,

 _In_opt_ LPCWSTR lpApplicationName,

 _Inout_opt_ LPWSTR lpCommandLine,

 In DWORD dwCreationFlags,

 _In_opt_ LPVOID lpEnvironment,

 _In_opt_ LPCWSTR lpCurrentDirectory,

 In LPSTARTUPINFOW lpStartupInfo,

 Out LPPROCESS_INFORMATION lpProcessInfo

);

* </code>

*

* @param lpUsername

* [in]

* The name of the user. This is the name of the user account to

* log on to.

* If you use the UPN format, user@DNS_domain_name, the lpDomain

* parameter must be NULL.

* The user account must have the Log On Locally permission on

* the local computer.

* This permission is granted to all users on workstations and

* servers, but only to administrators on domain controllers.

* @param lpDomain

* [in, optional]

* The name of the domain or server whose account database

* contains the lpUsername account.

* If this parameter is NULL, the user name must be specified in

* UPN format.

* @param lpPassword

* [in]

* The clear-text password for the lpUsername account.

* @param dwLogonFlags

* [in]

* The logon option. This parameter can be 0 (zero) or one of the

* following values.

* LOGON_WITH_PROFILE: 0x00000001

* Log on, then load the user profile in the HKEY_USERS registry

* key.

* The function returns after the profile is loaded.

* Loading the profile can be time-consuming, so it is best to

* use this value only if you must access the information in the

* HKEY_CURRENT_USER registry key.

* Windows Server 2003: The profile is unloaded after the new

* process is terminated, whether or not it has created child

* processes.

* Windows XP: The profile is unloaded after the new process and

* all child processes it has created are terminated.

*

* LOGON_NETCREDENTIALS_ONLY: 0x00000002

* Log on, but use the specified credentials on the network only.

*

* The new process uses the same token as the caller, but the

* system creates a new logon session within LSA, and the process

* uses the specified credentials as the default credentials.

*

* This value can be used to create a process that uses a

* different set of credentials locally than it does remotely.

*

* This is useful in inter-domain scenarios where there is no

* trust relationship.

* The system does not validate the specified credentials.

* Therefore, the process can start, but it may not have access

* to network resources.

* @param lpApplicationName

* [in, optional]

* The name of the module to be executed. This module can be a

* Windows-based application.

* It can be some other type of module (for example, MS-DOS or

* OS/2) if the appropriate subsystem is available on the local

* computer. The string can specify the full path and file name

* of the module to execute or it can specify a partial name.

*

* If it is a partial name, the function uses the current drive

* and current directory to complete the specification.

* The function does not use the search path. This parameter must

* include the file name extension; no default extension is

* assumed. The lpApplicationName parameter can be NULL, and the

* module name must be the first white space-delimited token in
 * the lpCommandLine string.

* If you are using a long file name that contains a space, use
 * quoted strings to indicate where the file name ends and the
 * arguments begin; otherwise, the file name is ambiguous. For
 * example, the following string can be interpreted in different
 * ways:

* "c:\program files\sub dir\program name"

* The system tries to interpret the possibilities in the
 * following order:

*

* c:\program.exe files\sub dir\program name

* c:\program files\sub.exe dir\program name

* c:\program files\sub dir\program.exe name

* c:\program files\sub dir\program name.exe

*

* If the executable module is a 16-bit application,
 * lpApplicationName should be NULL, and the string pointed to by
 * lpCommandLine should specify the executable module and its
 * arguments.

* @param lpCommandLine

* [in, out, optional]

* The command line to be executed. The maximum length of this
 * string is 1024 characters.

* If lpApplicationName is NULL, the module name portion of
 * lpCommandLine is limited to MAX_PATH characters.

* The function can modify the contents of this string.

* Therefore, this parameter cannot be a pointer to read-only
 * memory (such as a const variable or a literal string).

* If this parameter is a constant string, the function may cause
 * an access violation.

* The lpCommandLine parameter can be NULL, and the function uses
 * the string pointed to by lpApplicationName as the command line.

*

*

* If both lpApplicationName and lpCommandLine are non-NULL,
 * *lpApplicationName specifies the module to execute, and
 * *lpCommandLine specifies the command line.

* The new process can use GetCommandLine to retrieve the entire
 * command line.

* Console processes written in C can use the argc and argv
 * arguments to parse the command line.

* Because argv[0] is the module name, C programmers typically
 * repeat the module name as the first token in the command line.

*

* If lpApplicationName is NULL, the first white space-delimited
 * token of the command line specifies the module name.

* If you are using a long file name that contains a space, use

* quoted strings to indicate where the file name ends and the arguments begin (see the explanation for the lpApplicationName parameter). If the file name does not contain an extension, .exe is appended. Therefore, if the file name extension is .com, this parameter must include the .com extension. If the file name ends in a period with no extension, or if the file name contains a path, .exe is not appended. If the file name does not contain a directory path, the system searches for the executable file in the following sequence:

*

- * 1. The directory from which the application loaded.

- * 2. The current directory for the parent process.

- * 3. The 32-bit Windows system directory. Use the GetSystemDirectory function to get the path of this directory.

- *

- * 4. The 16-bit Windows system directory. There is no function that obtains the path of this directory, but it is searched.

- *

- * 5. The Windows directory. Use the GetWindowsDirectory function to get the path of this directory.

- * 6. The directories that are listed in the PATH environment variable. Note that this function does not search the per-application path specified by the App Paths registry key. To include this per-application path in the search sequence, use the ShellExecute function.

- *

* The system adds a null character to the command line string to separate the file name from the arguments. This divides the original string into two strings for internal processing.

* @param dwCreationFlags

* The flags that control how the process is created.

* The CREATE_DEFAULT_ERROR_MODE, CREATE_NEW_CONSOLE, and CREATE_NEW_PROCESS_GROUP flags are enabled by default.

* Even if you do not set the flag, the system functions as if it were set. You can specify additional flags as noted.

*

* CREATE_DEFAULT_ERROR_MODE: 0x04000000

* The new process does not inherit the error mode of the calling process.

* Instead, CreateProcessWithLogonW gives the new process the current default error mode.

* An application sets the current default error mode by calling SetErrorMode. This flag is enabled by default.

*

* CREATE_NEW_CONSOLE: 0x00000010

* The new process has a new console, instead of inheriting the parent's console. This flag cannot be used with the DETACHED_PROCESS flag.

* This flag is enabled by default.

*

* CREATE_NEW_PROCESS_GROUP: 0x00000200

* The new process is the root process of a new process group.

*

* The process group includes all processes that are descendants of this root process.

* The process identifier of the new process group is the same as the process identifier, which is returned in the lpProcessInfo parameter.

* Process groups are used by the GenerateConsoleCtrlEvent function to enable sending a CTRL+C or CTRL+BREAK signal to a group of console processes.

* This flag is enabled by default.

*

* CREATE_SEPARATE_WOW_VDM: 0x00000800

* This flag is only valid starting a 16-bit Windows-based application.

* If set, the new process runs in a private Virtual DOS Machine (VDM).

* By default, all 16-bit Windows-based applications run in a single, shared VDM.

* The advantage of running separately is that a crash only terminates the single VDM; any other programs running in distinct VDMs continue to function normally.

* Also, 16-bit Windows-based applications that run in separate VDMs have separate input queues, which means that if one application stops responding momentarily, applications in separate VDMs continue to receive input.

* CREATE_SUSPENDED: 0x00000004

* The primary thread of the new process is created in a suspended state, and does not run until the ResumeThread function is called.

*

* CREATE_UNICODE_ENVIRONMENT: 0x00000400

* Indicates the format of the lpEnvironment parameter.

* If this flag is set, the environment block pointed to by lpEnvironment uses Unicode characters.

* Otherwise, the environment block uses ANSI characters.

* EXTENDED_STARTUPINFO_PRESENT: 0x00080000

* The process is created with extended startup information; the lpStartupInfo parameter specifies a STARTUPINFOEX structure.

*

* Windows Server 2003 and Windows XP: This value is not supported.

* @param lpEnvironment

* [in, optional]

* A pointer to an environment block for the new process.

* If this parameter is NULL, the new process uses an environment
 * created from the profile of the user specified by lpUsername.
 * An environment block consists of a null-terminated block of
 * null-terminated strings.

 * Each string is in the following form:

 * name=value

 * Because the equal sign (=) is used as a separator, it must not
 * be used in the name of an environment variable.

 * An environment block can contain Unicode or ANSI characters.
 *

 * If the environment block pointed to by lpEnvironment contains
 * Unicode characters, ensure that dwCreationFlags includes
 * CREATE_UNICODE_ENVIRONMENT.

 * If this parameter is NULL and the environment block of the
 * parent process contains Unicode characters, you must also
 * ensure that dwCreationFlags includes
 * CREATE_UNICODE_ENVIRONMENT.

 * An ANSI environment block is terminated by two 0 (zero) bytes:
 * one for the last string and one more to terminate the block.
 *

 * A Unicode environment block is terminated by four zero bytes:
 * two for the last string and two more to terminate the block.
 *

 * To retrieve a copy of the environment block for a specific
 * user, use the CreateEnvironmentBlock function.

 * @param lpCurrentDirectory
 * [in, optional]

 * The full path to the current directory for the process.

 * The string can also specify a UNC path.

 * If this parameter is NULL, the new process has the same
 * current drive and directory as the calling process.

 * This feature is provided primarily for shells that need to
 * start an application, and specify its initial drive and
 * working directory.

 * @param lpStartupInfo
 * [in]

 * A pointer to a STARTUPINFO or STARTUPINFOEX structure.

 * The application must add permission for the specified user
 * account to the specified window station and desktop, even for
 * WinSta0\Default.

 * If the lpDesktop member is NULL or an empty string, the new
 * process inherits the desktop and window station of its parent
 * process.

 * The application must add permission for the specified user
 * account to the inherited window station and desktop.

 * Windows XP: CreateProcessWithLogonW adds permission for the
 * specified user account to the inherited window station and
 * desktop.

- * Handles in STARTUPINFO or STARTUPINFOEX must be closed with
- * CloseHandle when they are no longer needed.

- * Important If the dwFlags member of the STARTUPINFO structure
- * specifies STARTF_USESTDHANDLES, the standard handle fields are
- * copied unchanged to the child process without validation.

- * The caller is responsible for ensuring that these fields
- * contain valid handle values. Incorrect values can cause the
- * child process to misbehave or crash.

- * Use the Application Verifier runtime verification tool to
- * detect invalid handles.
- * @param lpProcessInfo
- * [out]

- * A pointer to a PROCESS_INFORMATION structure that receives
- * identification information for the new process, including a
- * handle to the process.

- * Handles in PROCESS_INFORMATION must be closed with the
- * CloseHandle function when they are not needed.

- * @return If the function succeeds, the return value is nonzero.

- * If the function fails, the return value is 0 (zero).

- * To get extended error information, call GetLastError.

- * Note that the function returns before the process has finished
- * initialization.

- * If a required DLL cannot be located or fails to initialize, the
- * process is terminated.

- * To get the termination status of a process, call
- * GetExitCodeProcess.
- * @see MSDN
- */

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- * /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/win32/Advapi32.java

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* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/mac/IOKit.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/mac/IOReturnException.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/mac/DiskArbitration.java
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* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-jar/com/sun/jna/platform/linux/XAttrUtil.java

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jar/com/sun/jna/platform/win32/WevtapiUtil.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-
jar/com/sun/jna/platform/win32/Winevt.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-
jar/com/sun/jna/platform/win32/Wevtapi.java

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jar/com/sun/jna/platform/win32/Wininet.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-
jar/com/sun/jna/platform/win32/GDI32Util.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-
jar/com/sun/jna/platform/win32/VersionUtil.java
* /opt/cola/permits/1244534585_1639737382.91/0/jna-platform-5-9-0-sources-
jar/com/sun/jna/platform/win32/WininetUtil.java

1.965 unist-util-find-all-after 1.0.5

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1.968 asm 8.0.1

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jar/org/objectweb/asm/CurrentFrame.java  
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/asm-8-0-1-sources-1-  
jar/org/objectweb/asm/Label.java  
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/asm-8-0-1-sources-1-  
jar/org/objectweb/asm/Type.java  
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/asm-8-0-1-sources-1-  
jar/org/objectweb/asm/FieldVisitor.java  
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/asm-8-0-1-sources-1-  
jar/org/objectweb/asm/ByteVector.java  
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/asm-8-0-1-sources-1-  
jar/org/objectweb/asm/RecordComponentVisitor.java
```

* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/Handler.java
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* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/SymbolTable.java
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/AnnotationWriter.java
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* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/MethodVisitor.java
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/MethodWriter.java
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/ClassVisitor.java
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/Edge.java
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/MethodTooLargeException.java
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/ConstantDynamic.java
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* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/RecordComponentWriter.java
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* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/ClassReader.java
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/ModuleWriter.java
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* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/TypeReference.java
* /opt/ws_local/PERMITS_SQL/1093933321_1601047939.19/0/asm-8-0-1-sources-1-jar/org/objectweb/asm/ModuleVisitor.java
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1.969 mikeal-oauth-sign 0.9.0

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1.972 simpleclient-common 0.15.0

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Manifest-Version: 1.0

Bnd-LastModified: 1644098861383

Build-Jdk: 11.0.13

Built-By: fabian

Bundle-Description: Common code used by various modules of the Simpleclient.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Common
Bundle-SymbolicName: io.prometheus.simpleclient_common
Bundle-Version: 0.15.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exporter.common;uses:="io.prometheus.client";version="0.15.0"
Import-Package: io.prometheus.client;version="[0.15,1)",io.prometheus.client.exemplars;version="[0.15,1)"
Tool: Bnd-2.1.0.20130426-122213

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* /opt/cola/permits/1332541538_1653371818.1968312/0/simpleclient-common-0-15-0-jar/META-INF/MANIFEST.MF

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1.973 angular-formly 7.3.9

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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
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#
src/pcf/module.mk
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src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/ftzconf.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
```

```
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
# EOF
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jar/com/thoughtworks/xstream/converters/javabean/NativePropertySorter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
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jar/com/thoughtworks/xstream/io/path/PathTracker.java
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jar/com/thoughtworks/xstream/io/xml/DomReader.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/ConverterLookup.java

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* Created on 24. December 2006 by Guilherme Silveira

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/annotations/XStreamAsAttribute.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/json/AbstractJsonWriter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/util/FastStack.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/XStreamException.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/TreeMarshaller.java

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* Created on 27. January 2014 by Joerg Schaible

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/security/InterfaceTypePermission.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/AbstractXppDriver.java

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* Created on 04. June 2006 by Mauro Talevi

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/AbstractXmlReader.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/NamedArrayConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory15.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/util/OrderRetainingMap.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/mapper/LambdaMapper.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/ISO8601SqlTimestampConverter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/ISO8601DateConverter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/reflection/FieldUtil14.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/collections/CollectionConverter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/reflection/AbstractAttributedCharacterIteratorAttributeConverter.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/collections/SingletonMapConverter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/mapper/OuterClassMapper.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/util/ISO8601JavaTimeConverter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/security/AbstractSecurityException.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/security/InputManipulationException.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/WriterWrapper.java

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Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: Apache Maven

Built-By: joehni

Build-Jdk: 1.8.0_312

Specification-Title: XStream Core

Specification-Vendor: XStream

Implementation-Title: XStream Core

Implementation-Version: 1.4.20

Implementation-Vendor-Id: com.thoughtworks.xstream

Implementation-Vendor: XStream

Bundle-License: BSD-3-Clause

Bundle-ManifestVersion: 2

Bundle-Name: XStream Core Sources

Bundle-SymbolicName: xstream.sources

Bundle-Vendor: XStream Sources

Bundle-Version: 1.4.20

Eclipse-SourceBundle: xstream;version=1.4.20

Specification-Version: 1.4

X-Build-Os: Linux

X-Build-Time: 2022-12-23T23:21:05Z

X-Builder: Maven 3.8.6

X-Compile-Source: 1.4

X-Compile-Target: 1.4

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/META-INF/MANIFEST.MF

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/mapper/AnnotationMapper.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/JavaFieldConverter.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/StreamException.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/reflection/SelfStreamingInstanceChecker.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/util/Cloneables.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/reflection/PureJavaReflectionProvider.java
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jar/com/thoughtworks/xstream/XStreamer.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/annotations/XStreamImplicitCollection.java
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jar/com/thoughtworks/xstream/converters/extended/JavaClassConverter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/SecurityMapper.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/security/NoTypePermission.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/security/TypePermission.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/security/AnyTypePermission.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/UnmarshallingContext.java

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```
*/opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/LocaleConverter.java
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Found in path(s):

```
*/opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/json/JettisonStaxWriter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/reflection/SerializationMethodInvoker.java

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Created on 10. May 2004 by Joe Walnes

-->

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/basic/package.html

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/mapper/LocalConversionMapper.java

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* Created on 15. March 2007 by Joerg Schaible

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/AbstractReferenceUnmarshaller.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/XppDomDriver.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/ReferenceByIdUnmarshaller.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/ReferenceByIdMarshaller.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/AbstractDriver.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/copy/HierarchicalStreamCopier.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/DomWriter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/XomReader.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/ReaderWrapper.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/StringCodec.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/AbstractDocumentWriter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/HierarchicalStreamDriver.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/converters/time/YearMonthConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/YearConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java
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Found in path(s):
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/util/XmlHeaderAwareReader.java
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c.t.x.converters.reflection.SerializationMemberInvoker.  
*/
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Found in path(s):
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/util/SerializationMembers.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/annotations/XStreamConverters.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/Caching.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/basic/LongConverter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/XmlFriendlyMapper.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/reflection/ReflectionProviderWrapper.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/SqlTimestampConverter.java
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* Created on 24. February 2016 by Joerg Schaible, factored out of ConversionException.
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/ErrorWritingException.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/StatefulWriter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/basic/StringConverter.java
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Found in path(s):

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/security/WildcardTypePermission.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/SubjectConverter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/basic/StringBuilderConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/basic/UIIDConverter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamReader.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/AbstractAttributeAliasingMapper.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/StaxDriver.java

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```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/DurationConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/PeriodConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/MonthDayConverter.java
```

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jar/com/thoughtworks/xstream/converters/time/HijrahDateConverter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/MXParserDomDriver.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/persistence/FileStreamStrategy.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/persistence/StreamStrategy.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/persistence/XmlMap.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/ChronologyConverter.java
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jar/com/thoughtworks/xstream/io/xml/SjsxpDriver.java
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jar/com/thoughtworks/xstream/core/util/ThreadSafePropertyEditor.java
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jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/JDom2Reader.java
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*
* Created on 22. January 2005 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/DefaultMapper.java
No license file was found, but licenses were detected in source scan.

/*

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* Created on 08. April 2006 by Joerg Schaible
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```

Found in path(s):

```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/CGLIBMapper.java
No license file was found, but licenses were detected in source scan.
```

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Found in path(s):

```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/AttributeAliasingMapper.java
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```

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* Created on 24. April 2005 by Joe Walnes
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Found in path(s):

```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/AbstractPullParser.java
```

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 * Created on 06. March 2017 by Joerg Schaible
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```

Found in path(s):

```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/SystemClockConverter.java
```

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 * Created on 07. March 2004 by Joe Walnes
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Found in path(s):

```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/collections/BitSetConverter.java
```

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 * Created on 30. March 2007 by Joerg Schaible
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```

Found in path(s):

```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
```

jar/com/thoughtworks/xstream/core/util/DependencyInjectionFactory.java

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* Created on 16. August 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/converters/DataHolder.java

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*

* Created on 08. January 2014 by Joerg Schaible, factored out from SunUnsafeReflectionProvider

*/

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/converters/reflection/SunLimitedUnsafeReflectionProvider.java

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* Created on 19. January 2014 by Joerg Schaible

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/security/CGLIBProxyTypePermission.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/security/ProxyTypePermission.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/DomDriver.java
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* Created on 16. February 2005 by Joe Walnes
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/ImplicitCollectionMapper.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/Converter.java

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 * Created on 22. February 2017 by Joerg Schaible
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```

Found in path(s):

```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/WeekFieldsConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java
```

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 *
 * Created on 14. August 2004 by Joe Walnes
 */
/**
 * A SAX {@link org.xml.sax.XMLReader parser} that acts as an XStream
 * {@link com.thoughtworks.xstream.io.HierarchicalStreamWriter} to enable direct generation of a
 * SAX event flow from the XStream serialization of a list of list of Java objects.
 * <p>
 * As a
 * custom SAX parser, this class ignores the arguments of the two standard parse methods ({@link
 * #parse(java.lang.String)}
 * and {@link #parse(org.xml.sax.InputSource)}) but relies on a proprietary SAX property
```

```

* { @link #SOURCE_OBJECT_LIST_PROPERTY } to define the list of objects to serialize.
* </p>
* <p>
* Configuration of this SAX parser is achieved through the standard
* { @link #setProperty SAX property mechanism}. While specific setter methods require direct
* access to the parser instance, SAX properties support configuration settings to be propagated
* through a chain of { @link org.xml.sax.XMLFilter filters} down to the underlying parser
* object.
* </p>
* <p>
* This mechanism shall be used to configure the
* { @link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized} as well as the
* { @link #CONFIGURED_XSTREAM_PROPERTY XStream facade}.
* </p>
*
* @author Laurent Bihanic
*/
/**
 * Sets the value of a property.
 * <p>
 * The property name is any fully-qualified URI. It is
 * possible for an XMLReader to recognize a property name but
 * to be unable to set its value.</p>
 * <p>
 * XMLReaders are not required to recognize setting any
 * specific property names, though a core set is provided with
 * SAX2.</p>
 * <p>
 * Some property values may be immutable or mutable only
 * in specific contexts, such as before, during, or after
 * a parse.</p>
 * <p>
 * This method is also the standard mechanism for setting
 * extended handlers.</p>
 * <p>
 * <strong>Note</strong>: This implementation only supports two
 * (proprietary) properties: { @link #CONFIGURED_XSTREAM_PROPERTY}
 * and { @link #SOURCE_OBJECT_LIST_PROPERTY}.</p>
 *
 * @param name the property name, which is a fully-qualified URI.
 * @param value the requested value for the property.
 * @throws SAXNotRecognizedException when the XMLReader does not
 * recognize the property name.
 * @throws SAXNotSupportedException when the XMLReader recognizes
 * the property name but cannot set
 * the requested value.
 * @see #getProperty
 */

```

```

/**
 * Parses an XML document from a system identifier (URI).
 * <p>
 * This method is a shortcut for the common case of reading a
 * document from a system identifier. It is the exact
 * equivalent of the following:</p>
 * <blockquote>
 * <pre>
 *   parse(new InputSource(systemId));
 * </pre>
 * </blockquote>
 * <p>
 * If the system identifier is a URL, it must be fully resolved
 * by the application before it is passed to the parser.</p>
 * <p>
 * <strong>Note</strong>: As a custom SAX parser, this class
 * ignores the <code>systemId</code> argument of this method
 * and relies on the proprietary SAX property
 * { @link #SOURCE_OBJECT_LIST_PROPERTY }) to define the list of
 * objects to serialize.</p>
 *
 * @param systemId the system identifier (URI).
 * @throws SAXException Any SAX exception, possibly wrapping
 *         another exception.
 * @see #parse(org.xml.sax.InputSource)
 */

```

Found in path(s):

```

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/SaxWriter.java

```

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 */

```

Found in path(s):

```

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/reflection/FieldDictionary.java

```

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```

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/JDomReader.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/JDomWriter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/XomWriter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/HierarchicalStreamWriter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/collections/ArrayConverter.java

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*/

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/path/PathTrackingReader.java

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* Created on 18. October 2007 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/DocumentReader.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/DocumentWriter.java

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* Created on 15. February 2006 by Mauro Talevi
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/basic/AbstractSingleValueConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/SingleValueConverter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/time/ZoneIdConverter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/persistence/PersistenceStrategy.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/BEAStaxDriver.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/package.html
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/collections/package.html
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* Created on 08.12.2007 by Joerg Schaible
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/LookAndFeelConverter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/BaseException.java
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* Created on 10. April 2007 by Guilherme Silveira
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/reflection/ImmutableFieldKeySorter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/reflection/FieldKeySorter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/reflection/FieldKey.java
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* Created on 24. April 2005 by Joe Walnes
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Found in path(s):

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*

* Created on 12.10.2010 by Joerg Schaible, extracted from TreeSetConverter.

*/

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/util/PresortedSet.java

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* Created on 03. October 2003 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/basic/NullConverter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/CharsetConverter.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/xppdom/XppDomComparator.java
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* Created on 25. September 2013 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/UseAttributeForEnumMapper.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshallingStrategy.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/converters/extended/ThrowableConverter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReplacer.java

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Found in path(s):

- * /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java
- * /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java
- * /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/naming/StaticNameCoder.java
- * /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java

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Found in path(s):

- * /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/PrettyPrintWriter.java

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Found in path(s):

- * /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/reflection/ReflectionConverter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/util/Types.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/security/ForbiddenClassException.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/reflection/LambdaConverter.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/AbstractXmlWriter.java

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Found in path(s):

```
*/opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-  
jar/com/thoughtworks/xstream/converters/extended/OptionalDoubleConverter.java
```

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* Created on 06. July 2006 by Guilherme Silveira  
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```

Found in path(s):

```
*/opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-  
jar/com/thoughtworks/xstream/persistence/XmlArrayList.java
```

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/basic/URLConverter.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/OptionalIntConverter.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/OptionalLongConverter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/StandardStaxDriver.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/HierarchicalStreamReader.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/AtomicBooleanConverter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/time/JapaneseEraConverter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/persistence/XmlSet.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/ErrorWriter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/mapper/DefaultImplementationsMapper.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/reflection/ReflectionProvider.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/json/JsonWriter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/path/package.html
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jar/com/thoughtworks/xstream/io/xml/CompactWriter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/CannotResolveClassException.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/AbstractTreeMarshallingStrategy.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/basic/BigIntegerConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java
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jar/com/thoughtworks/xstream/mapper/CachingMapper.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/io/binary/BinaryStreamDriver.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/TextAttributeConverter.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/ISO8601GregorianCalendarConverter.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/mapper/ClassAliasingMapper.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/javabean/PropertyDictionary.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/MXParserDriver.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/AtomicIntegerConverter.java

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* Created on 07. July 2006 by Mauro Talevi

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/ToStringConverter.java

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* Created on 01. October 2004 by James Strachan

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/QNameMap.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/annotations/AnnotationReflectionConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/annotations/AnnotationProvider.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/util/PrioritizedList.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/SequenceGenerator.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/util/Base64Encoder.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/ErrorReporter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/AbstractXmlFriendlyMapper.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/DynamicProxyConverter.java
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* Created on 12. April 2005 by Joe Walnes
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/javabean/BeanProvider.java
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* Created on 29. May 2004 by Joe Walnes
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/StackTraceElementConverter.java

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Found in path(s):

```
*/opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/MarshallingContext.java
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```

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 * Created on 06. May 2005 by Guilherme Silveira
 */
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Found in path(s):

```
*/opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/annotations/XStreamOmitField.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/annotations/XStreamConverter.java

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* Created on 11. August 2011 by Joerg Schaible, code from XppDom.

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/xppdom/XppFactory.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/Dom4JDriver.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/basic/DateConverter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/util/Fields.java

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* Created on 08. January 2016 by Joerg Schaible, factored out from FieldAliasingMapper.

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/mapper/ElementIgnoringMapper.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/WstxDriver.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/enums/EnumToStringConverter.java

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* Created on 10. April 2007 by Guilherme Silveira

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/reflection/SortableFieldKeySorter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/DefaultConverterLookup.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/JDomDriver.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/StaxWriter.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/XppReader.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/util/ObjectIdDictionary.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/naming/NameCoder.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshaller.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/basic/FloatConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/converters/basic/DoubleConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/basic/CharConverter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/collections/TreeSetConverter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/collections/CharArrayConverter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/path/PathTrackingWriter.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/util/CustomObjectOutputStream.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/reflection/SerializableConverter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/json/JettisonMappedXmlDriver.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/annotations/XStreamImplicit.java
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*/

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/Mapper.java
No license file was found, but licenses were detected in source scan.

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* Created on 21.06.2015 by Joerg Schaible
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/ActivationDataFlavorConverter.java
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* Created on 30. July 2011 by Joerg Schaible
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/ToAttributedValueConverter.java
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* Created on 04. June 2006 by Joe Walnes
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/binary/ReaderDepthState.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/binary/BinaryStreamWriter.java

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 *
 * Created on 11. August 2005 by Mauro Talevi
 */
```

Found in path(s):

```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/annotations/XStreamAlias.java
```

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 * Created on 23. August 2004 by Joe Walnes
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Found in path(s):

```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/util/CustomObjectInputStream.java
```

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 * Created on 01. October 2003 by Joe Walnes
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/ColorConverter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/util/CompositeClassLoader.java

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* Created on 07. March 2004 by Joe Walnes

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3Dom.java

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* Created on 29. April 2009 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/Xpp3Driver.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/KXml2Driver.java

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* Created on 12. February 2017 by Joerg Schaible

-->

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/time/package.html

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/javabean/BeanProperty.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/enums/EnumSetConverter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/persistence/FilePersistenceStrategy.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/util/ThreadSafeSimpleDateFormat.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/reflection/ObjectAccessException.java
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* Created on 15. August 2009 by Joerg Schaible, copied from XmlFriendlyReplacer.
*/

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/XmlFriendlyNameCoder.java
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* Created on 09. January 2014 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/security/NoPermission.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/security/NullPermission.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/security/RegExpTypePermission.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/security/ArrayTypePermission.java

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 * Created on 3. August 2010 by Joerg Schaible
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```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/basic/URICConverter.java
```

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 */
```

Found in path(s):

```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/GregorianCalendarConverter.java
```

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 * Created on 21. September 2021 by Joerg Schaible
 */
```

Found in path(s):

```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
```

jar/com/thoughtworks/xstream/core/SecurityUtils.java

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* Created on 8. December 2022 by Joerg Schaible

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/converters/extended/OptionalConverter.java

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* Created on 20. February 2006 by Mauro Talevi

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/converters/SingleValueConverterWrapper.java

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* Created on 12. February 2008 by Joerg Schaible

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/converters/enums/EnumSingleValueConverter.java

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* Created on 22. January 2005 by Joe Walnes
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/MapperWrapper.java

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* Created on 19. September 2013 by Joerg Schaible
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/NamedCollectionConverter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/AttributeNameIterator.java

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* Created on 12.10.2010 by Joerg Schaible, extracted from TreeMapConverter.

*/

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/util/PresortedMap.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/javabean/JavaBeanConverter.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/io/xml/XStream11XmlFriendlyReplacer.java

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Found in path(s):

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jar/com/thoughtworks/xstream/converters/extended/DurationConverter.java

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jar/com/thoughtworks/xstream/core/JVM.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/AtomicReferenceConverter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/AbstractReferenceMarshaller.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/util/Pool.java
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Found in path(s):

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/mapper/EnumMapper.java
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* Created on 08. January 2014 by Joerg Schaible, renamed from Sun14ReflectionProvider
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/reflection/SunUnsafeReflectionProvider.java
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* Created on 26. September 2003 by Joe Walnes

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/basic/IntConverter.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/basic/BooleanConverter.java

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Found in path(s):

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/collections/MapConverter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/util/WeakCache.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/collections/PropertiesConverter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/ReferenceByIdMarshallingStrategy.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/persistence/AbstractFilePersistenceStrategy.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/JavaMethodConverter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/xppdom/XppDom.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/AbstractXppDomDriver.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/io/xml/KXml2DomDriver.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriterHelper.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/AbstractWriter.java
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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/InitializationException.java
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jar/com/thoughtworks/xstream/core/util/Primitives.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/reflection/XStream12FieldKeySorter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/AttributeMapper.java
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Found in path(s):

```
*/opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/ConversionException.java
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*/opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/extended/RegexPatternConverter.java
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*/opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
```

jar/com/thoughtworks/xstream/io/xml/TraxSource.java

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jar/com/thoughtworks/xstream/converters/ConverterMatcher.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/annotations/XStreamAliasType.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-

jar/com/thoughtworks/xstream/converters/reflection/ExternalizableConverter.java

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*/opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/converters/basic/StringBufferConverter.java
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```
*/opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamDriver.java
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Found in path(s):

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*/opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
```

jar/com/thoughtworks/xstream/converters/reflection/AbstractReflectionConverter.java

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jar/com/thoughtworks/xstream/converters/time/InstantConverter.java

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jar/com/thoughtworks/xstream/converters/extended/FileConverter.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/reflection/MissingFieldException.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/mapper/XStream11XmlFriendlyMapper.java
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jar/com/thoughtworks/xstream/MarshallingStrategy.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/JDom2Driver.java

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jar/com/thoughtworks/xstream/mapper/PackageAliasingMapper.java

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jar/com/thoughtworks/xstream/converters/ConverterRegistry.java

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jar/com/thoughtworks/xstream/io/xml/AbstractXmlDriver.java
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jar/com/thoughtworks/xstream/converters/extended/NamedMapConverter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/core/ReferenceByXPathUnmarshaller.java

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jar/com/thoughtworks/xstream/core/MapBackedDataHolder.java
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Found in path(s):

```
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/Dom4JXmlWriter.java
```

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 *
 * Created on 13. October 2008 by Joerg Schaible
 */
```

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/util/FastField.java

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Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/mapper/FieldAliasingMapper.java

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/converters/extended/EncodedByteArrayConverter.java

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* Created on 11. August 2005 by Mauro Talevi

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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/annotations/XStreamContainedType.java

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/annotations/Annotations.java

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* Created on 01. March 2013 by Joerg Schaible, moved from package
* com.thoughtworks.xstream.converters.reflection.

*/

Found in path(s):

* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-jar/com/thoughtworks/xstream/core/util/SelfStreamingInstanceChecker.java

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jar/com/thoughtworks/xstream/converters/collections/TreeMapConverter.java
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* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java
* /opt/cola/permits/1539306877_1674230658.6165352/0/xstream-1-4-20-sources-
jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java
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jar/com/thoughtworks/xstream/io/xml/StaxReader.java

1.990 jackson-xc 2.13.2

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1.991 jspapiglassfish 9.1.1.B60.25.p2

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1.992 istanbuljs-schema 0.1.3

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1.994 unist-util-visit 1.4.1

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1.995 enzymejs 3.11.0

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1.996 eslint-plugin-es 3.0.1

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1.997 slf4j 1.7.36

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1.1004 postcss-reduce-idents 2.4.0

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1.1005 @babel/highlight 7.14.5

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1.1006 spring-beans 5.3.25

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1.1009 nodeca-pako 1.0.11

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1.1010 postcss-env-function 2.0.2

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1.1011 ehcache 2.2.0

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zBschemaorg_apache_xmlbeans.system.s5F9685CCFAB17A1A45B3D30E6740C5D4

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6etDJ6AUj0jTuS159hUsWMQ=
=HmqH

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LBDVaad1bJ1v1EHY901kPcg=
=6rqm

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8sfMxEDZquIqhVbfZU2c76U=
=8WW7

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Full name: Julian Anthony Fox Gosnell

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Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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I/stizRWWZZkeLbcglzdQCE=

=piHm

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iD8DBQFDjMI6J97Uv2IW248RAmGNAJ9/krpkiYJRrJTMXVkJL3cdnVvfU+QCfYFEh
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=24Hd

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5hdry6ZjXRcUhQEyNz2F/T4=
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- */

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* \$Revision: 1.2 \$

* \$Date: 2003/04/06 20:37:31 \$

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"License type":

type: String

required: true

pattern: Trial|Commercial

"License number":

type: String

required: true

"Licensee":

type: String

required: true

"Max clients":

type: Integer

required: true

range:

min: 1

"Product":

type: String

required: true

pattern: Enterprise Suite|Ehcache|Quartz|Sessions|Custom

"Edition":

type: String

required: true

pattern: FX|EX

"Expiration date":

type: Date

required: false

Opensource capabilities:

- roots
- sessions
- ehcache
- quartz

Enterprise capabilities:

- roots
- sessions
- Terracotta operator console
- server striping
- ehcache
- quartz

- authentication
- DCV2

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- quartz
- sessions
- server striping
- DCV2

Ehcache:

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- authentication
- ehcache

FX:

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- authentication
- ehcache
- server striping
- DCV2

Quartz:

EX:

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- quartz

FX:

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- quartz
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EX:

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Mailing Address: 4676 Admiralty Way, Suite 520
Marina Del Rey, CA 90292

Point of Contact:

Full name: Gordon King

E-Mail: gordon.king@simulalabs.com

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

Schedule A

| Name | Date added |
|---------------|-------------------|
| Simone Bordet | 12 September 2006 |

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5m1IYSdEU+ue5uwdK2wFixw=

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Version: GnuPG v1.4.8 (MingW32)

iEYEARECAAYFAkeLFIsACgkQjWHNMjoXfXTjSACeKOgzKTiwDkGfYOaUhGmchtIX
2hgAnRoq7k8cHqO4o1oRwybUho6x/TAW
=rRcC

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Version: GnuPG v1.4.5 (Cygwin)

iD8DBQFFiWlgCWpdA0nIpYMRAm7uAJ90KNa4SmViBwVxBnai8ocoeXvJggCfd1AQ
33fLBVCnyMmWMfvBorrHHik=
=aNrC
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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/internal/JavaVersion.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/internal/PreJava9DateFormatProvider.java
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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/internal/bind/TypeAdapters.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/internal/bind/JsonTreeReader.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/internal/bind/JsonTreeWriter.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/TypeAdapter.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-

jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonStreamParser.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonParser.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/LongSerializationPolicy.java
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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/\$Gson\$Types.java

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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/ToNumberStrategy.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/ToNumberPolicy.java
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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/stream/JsonReader.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/stream/JsonScope.java
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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/Streams.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/JsonSyntaxException.java
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jar/com/google/gson/annotations/JsonAdapter.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonElement.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/Excluder.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonParseException.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/\$Gson\$Preconditions.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonIOException.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonObject.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/InstanceCreator.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/Primitives.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonNull.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/annotations/SerializedName.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonDeserializationContext.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/FieldNamingPolicy.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonPrimitive.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/FieldNamingStrategy.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/Gson.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonSerializer.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonSerializationContext.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/annotations/Since.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonDeserializer.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/reflect/TypeToken.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/ObjectConstructor.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-


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jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-
jar/com/google/gson/annotations/Expose.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/GsonBuilder.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonArray.java
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1.1015 spawn-sync 1.0.15

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1.1016 http-proxy-middleware v0.19.1

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1.1018 html-encoding-sniffer 1.0.2

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jar/com/sun/xml/bind/v2/runtime/property/Messages.properties  
* /opt/cola/permits/1535106891_1678852170.9471998/0/jaxb-impl-2-2-3-1-  
jar/com/sun/xml/bind/marshaller/Messages.properties  
* /opt/cola/permits/1535106891_1678852170.9471998/0/jaxb-impl-2-2-3-1-  
jar/com/sun/xml/bind/v2/model/annotation/Messages.properties  
* /opt/cola/permits/1535106891_1678852170.9471998/0/jaxb-impl-2-2-3-1-  
jar/com/sun/xml/bind/unmarshaller/Messages.properties  
* /opt/cola/permits/1535106891_1678852170.9471998/0/jaxb-impl-2-2-3-1-  
jar/com/sun/xml/bind/v2/runtime/Messages.properties  
* /opt/cola/permits/1535106891_1678852170.9471998/0/jaxb-impl-2-2-3-1-  
jar/com/sun/xml/bind/v2/Messages.properties  
* /opt/cola/permits/1535106891_1678852170.9471998/0/jaxb-impl-2-2-3-1-  
jar/com/sun/xml/bind/v2/schemagen/Messages.properties  
* /opt/cola/permits/1535106891_1678852170.9471998/0/jaxb-impl-2-2-3-1-  
jar/com/sun/xml/bind/v2/model/impl/Messages.properties  
* /opt/cola/permits/1535106891_1678852170.9471998/0/jaxb-impl-2-2-3-1-  
jar/com/sun/xml/bind/v2/runtime/unmarshaller/Messages.properties  
* /opt/cola/permits/1535106891_1678852170.9471998/0/jaxb-impl-2-2-3-1-  
jar/com/sun/xml/bind/api/Messages.properties  
* /opt/cola/permits/1535106891_1678852170.9471998/0/jaxb-impl-2-2-3-1-  
jar/com/sun/xml/bind/v2/runtime/reflect/Messages.properties
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1.1020 policy 2.3.1

1.1021 stax 4.2.1

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1.1023 jest-from-facebook 25.3.0

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1.1024 require-directory 2.1.1

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1.1025 remove-trailing-separator 1.1.0

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1.1026 apache-httpmime 4.5.13

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1.1027 digraph-parser 1.0

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*/

/** Derived from <http://www.graphviz.org/doc/info/lang.html>.

Comments pulled from spec.

*/

grammar DOT;

```

graph    : STRICT? (GRAPH | DIGRAPH) id? '{' stmt_list '}';
stmt_list : ( stmt ';' ) * ;
stmt     : node_stmt
          | edge_stmt
          | attr_stmt
          | id '=' id
          | subgraph
          ;
attr_stmt : (GRAPH | NODE | EDGE) attr_list ;
attr_list : ( '[' a_list? ']' ) + ;
a_list   : ( id '=' id? ';' ) + ;
edge_stmt : ( node_id | subgraph ) edgeRHS attr_list? ;
edgeRHS   : ( edgeop ( node_id | subgraph ) ) + ;
edgeop    : '->' | '-.-' ;
node_stmt : node_id attr_list? ;
node_id   : id port? ;
port      : ':' id ( ':' id )? ;
subgraph  : ( SUBGRAPH id? )? '{' stmt_list '}';
id        : ID
          | STRING
          | HTML_STRING
          | NUMBER
          ;

```



```

// "The keywords node, edge, graph, digraph, subgraph, and strict are
// case-independent"
STRICT   : [Ss][Tt][Rr][Ii][Cc][Tt] ;
GRAPH    : [Gg][Rr][Aa][Pp][Hh] ;
DIGRAPH  : [Dd][Ii][Gg][Rr][Aa][Pp][Hh] ;
NODE     : [Nn][Oo][Dd][Ee] ;
EDGE     : [Ee][Dd][Gg][Ee] ;
SUBGRAPH : [Ss][Uu][Bb][Gg][Rr][Aa][Pp][Hh] ;

/** "a numeral [-]?([0-9]+ | [0-9]+([0-9]*)?)" */
NUMBER   : '-'? (' DIGIT+ | DIGIT+ (' DIGIT*)? ) ;
fragment
DIGIT    : [0-9] ;

/** "any double-quoted string ("...") possibly containing escaped quotes" */
STRING   : "" ("\"")*? "" ;

/** "Any string of alphabetic ([a-zA-Z\u200-\u377]) characters, underscores
* ('_') or digits ([0-9]), not beginning with a digit"
*/
ID       : LETTER (LETTER|DIGIT)*;
fragment
LETTER   : [a-zA-Z\u0080-\u00FF_] ;

/** "HTML strings, angle brackets must occur in matched pairs, and
* unescaped newlines are allowed."
*/
HTML_STRING : '<' (TAG|~[<>])* '>';
fragment
TAG       : '<' .*? '>';

COMMENT   : '/*' .*? '*/' -> skip ;
LINE_COMMENT: '//' .*? '\r'? '\n' -> skip ;

/** "a '#' character is considered a line output from a C preprocessor (e.g.,
* # 34 to indicate line 34 ) and discarded"
*/
PREPROC   : '#' .*? '\n' -> skip ;

WS        : [ \t\n\r]+ -> skip ;

Found in path(s):
* /opt/cola/permits/1131003316_1612875442.74/0/digraph-parser-1-0-sources-2-
jar/com/paypal/digraph/parser/antlr/DOT.g4
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/*
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* /opt/cola/permits/1131003316_1612875442.74/0/digraph-parser-1-0-sources-2-jar/com/paypal/digraph/parser/GraphParser.java

* /opt/cola/permits/1131003316_1612875442.74/0/digraph-parser-1-0-sources-2-jar/com/paypal/digraph/parser/GraphElement.java

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1.1028 unzip 6.0

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The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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*
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- * changes."

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The following copyright applies to the Mac OS "macbin3" decoding code (extra field compatibility with ZipIt):

- * MacBinaryIII.h
- *
- * Copyright 1997 Christopher Evans (cevens@poppybank.com)
- *
- * Basic encoding and decoding of Macintosh files to the
- * MacBinary III spec.
- * -----
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- * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
- * homepage of Leonard Rosenthol leonardr@netcom.com)

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.1029 fn-name 1.1.0

1.1029.1 Available under license :

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1.1030 brorand 1.1.0

1.1031 is-property 1.0.2

1.1031.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1127084563_1611780084.51/0/fis-components-is-property-1-0-2-0-g24ebed6-tar-gz/fis-components-is-property-4515de4/README.md

1.1032 async 3.2.4

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1.1033 typedarray-to-buffer 3.1.5

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1.1034 buffer-xor 1.0.3

1.1035 postcss 8.4.20

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1.1036 strict-uri-encode 1.1.0

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1.1037 drop-wizard-metrics 2.0.29

1.1037.1 Available under license :

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1.1038 nlog 4.0.0.0

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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%% winjs version 4.4.0 (<https://github.com/winjs/winjs>)

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WinJS

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1.1045 api-check 7.5.5

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1.1046 regexpp 3.2.0

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1.1047 finalhandler 1.1.2

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1.1048 java-csv 2.0

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1.1049 jul-to-slf4j 1.7.30

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Found in path(s):

* /opt/cola/permits/1135864176_1613618002.1/0/jul-to-slf4j-1-7-30-sources-1-jar/org/slf4j/bridge/SLF4JBridgeHandler.java

1.1050 @humanwhocodes/object-schema

1.2.0

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1.1051 core-js v2.6.12

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1.1052 guice-jmx 2.0

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Manifest-Version: 1.0

Ant-Version: Apache Ant 1.7.0

Created-By: 1.6.0_07 (Apple Inc.)

Export-Package: com.google.inject.tools.jmx;uses:="com.google.inject,javax.management";version="1.2"

Bundle-Name: guice-jmx

Bundle-Copyright: Copyright (C) 2006 Google Inc.
Bundle-Vendor: Google Inc.
Bundle-Version: 2.0
Bundle-ManifestVersion: 2
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0>
Bundle-Description: Guice is a lightweight dependency injection framework for Java 5 and above
Import-Package: com.google.inject;version="[1.2,2)",com.google.inject.tools.jmx;version="[1.2,2)",javax.management;resolution:=optional
Bundle-SymbolicName: com.google.inject.tools.jmx
Bundle-DocURL: <http://code.google.com/p/google-guice/>

Found in path(s):

* /opt/cola/permits/1000218403_1602489450.29/0/guice-jmx-2-0-zip/META-INF/MANIFEST.MF

1.1053 hosted-git-info v2.8.9

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1.1054 samccone/chrome-trace-event 1.0.3

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1.1055 junit 4.13.2

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1.1056 tomcat-jdbc 9.0.69

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1.1057 postcss-minify-selectors 2.1.1

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1.1058 whet.extend 0.9.9

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1.1059 nodejs-exit 0.1.2

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1.1060 zlib 1.2.3

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version 1.2.11, January 15th, 2017

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1.1061 clean-css 4.2.3

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1.1062 html-webpack-plugin 4.5.2

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1.1063 @babel/generator 7.15.8

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1.1064 @babel/plugin-proposal-class-properties 7.18.6

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1.1065 killable 1.0.1

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%% winjs version 4.4.0 (<https://github.com/winjs/winjs>)

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/primitives/package-info.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Equivalence.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Strings.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/annotations/Beta.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/net/package-info.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Ascii.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ListeningExecutorService.java
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jar/jersey/repackaged/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/base/VerifyException.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/base/Utf8.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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/*
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jar/jersey/repackaged/com/google/common/util/concurrent/ListenerCallQueue.java
```

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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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jar/jersey/repackaged/com/google/common/base/MoreObjects.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/math/LongMath.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/base/Enums.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/math/DoubleMath.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/math/DoubleUtils.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/AbstractScheduledService.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/CacheStats.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/reflect/Types.java

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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/RegularImmutableMultiset.java

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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/math/BigIntegerMath.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ExecutionError.java

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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/net/HttpHeaders.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Present.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/CycleDetectingLockFactory.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Optional.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/AbstractLoadingCache.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/AbstractCache.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/AtomicLongMap.java

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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingCheckedFuture.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/WellBehavedMap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/math/package-info.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/FutureFallback.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/Uninterruptibles.java

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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/cache/Weigher.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/BoundType.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/HashCode.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/Queues.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/Hasher.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/Funnel.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/HashingOutputStream.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/AbstractHasher.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/Count.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-

jar/jersey/repackaged/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ImmutableRangeMap.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/Striped64.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-

jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/escape/Escapers.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/base/Platform.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-

jar/jersey/repackaged/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-

jar/jersey/repackaged/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ComputationException.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
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 *
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 */
```

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 */
```

Found in path(s):

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*/opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/io/InputSupplier.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/Multimap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ConcurrentHashMultiset.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ArrayListMultimap.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/Interner.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingSortedMap.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/Sets.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Supplier.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/Iterators.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Function.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Throwables.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/EnumBiMap.java

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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/Suppliers.java

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/TreeMultimap.java

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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/LinkedListMultimap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/base/Defaults.java
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```

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```

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*/
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/*
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```
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
```

```
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
```

```
* following header:
```

```
*
```

```
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```

```
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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/base/SmallCharMatcher.java
```

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Found in path(s):

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/base/FunctionalEquivalence.java

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* This following method is a modified version of one found in

* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>

* which contained the following notice:

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* Pat Fisher, Mike Judd.

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Found in path(s):

* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/MoreExecutors.java

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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/reflect/Reflection.java
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* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/RegularImmutableMap.java
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- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/FilteredSetMultimap.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableMap.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/TreeRangeMap.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/reflect/TypeCapture.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/UnmodifiableSortedMultiset.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractMultimap.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedMap.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/cache/LongAddables.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/AsyncSettableFuture.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/FilteredKeyListMultimap.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ImmutableEnumMap.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/io/Closer.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/TransformedIterator.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/io/ByteSink.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/reflect/MutableTypeToInstanceMap.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ServiceManager.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/FilteredEntrySetMultimap.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingDeque.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ListenableScheduledFuture.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/RateLimiter.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/collect/BinaryTreeTraverser.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-jar/jersey/repackaged/com/google/common/reflect/AbstractInvocationHandler.java
- * /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-

jar/jersey/repackaged/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/escape/package-info.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/reflect/Element.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/io/CharSink.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-

jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/xml/package-info.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/html/package-info.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/io/ByteSource.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/reflect/package-info.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/io/CharSource.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1132255413_1667977202.9796696/0/jersey-guava-2-25-1-sources-
jar/jersey/repackaged/com/google/common/reflect/ImmutableTypeToInstanceMap.java

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1.1080 url-loader 4.1.1

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1.1082 p-finally 1.0.0

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1.1084 jboss-transaction-api 1.1.1.Final

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1.1085 string-prototype-matchall 4.0.6

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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078269711_1597282742.91/0/fis-components-lodash-isarray-3-0-4-0-gbfe7f4f-
tar-gz/fis-components-lodash.isarray-e18427d/index.js
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1.1087 pkg-up 2.0.0

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1.1091 commons-digester 2.1

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1.1092 jackson-dataformat-yaml 2.12.3

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1.1094 p-limit 2.3.0

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1.1095 babel-helpers v6.24.1

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1.1096 system-collections-immutable 1.5.0

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version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

By Sean Eron Anderson
seander@cs.stanford.edu

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1.1101 commons-compress 1.20

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1.1103 zlib 1.2.12

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* zlib.h -- interface of the 'zlib' general purpose compression library
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

By Sean Eron Anderson
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1.1105 json-parse-even-better-errors 2.3.1

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1.1106 types-webpack-sources 3.2.0

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1.1107 bouncycastle-fips 1.0.3

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```
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 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */
```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.1108 activation-api 1.2.0

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1.1110 guava 31.1-jre

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/**

* Outer class that exists solely to let us write { @code Partially.GwtIncompatible } instead of plain
* { @code GwtIncompatible }. This is more accurate for { @link Futures#catching }, which is available
* under GWT but with a slightly different signature.

*

```
* <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler wouldn't recognize
* it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/Partially.java
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*/
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```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/Network.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/PredecessorsFunction.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/ImmutableGraph.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/MutableGraph.java
```

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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/RecursiveDeleteOption.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/SuccessorsFunction.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/Graph.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/ImmutableNetwork.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/Graphs.java
```

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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/TopKSelector.java
```

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/InsecureRecursiveDeleteException.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableMultiset.java
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- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableAsList.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ComparisonChain.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableList.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TableCollectors.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/DiscreteDomain.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMap.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableTable.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableEnumSet.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractIndexedListIterator.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableList.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableTable.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ComputationException.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableSetMultimap.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingTable.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ArrayTable.java

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jar/com/google/common/hash/package-info.java

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jar/com/google/common/collect/PeekingIterator.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableEntry.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableBiMap.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/Serialization.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/HashBasedTable.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMapValues.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMultiset.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMapKeySet.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableBiMap.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EmptyImmutableListMultimap.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/NullnessCasts.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/NullnessCasts.java

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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/UnsignedInteger.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/CacheStats.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/AbstractGraph.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/StandardMutableGraph.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/MoreCollectors.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/DirectedNetworkConnections.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/Doubles.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/Ints.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/Converter.java
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jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/eventbus/Dispatcher.java
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jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/AtomicDoubleArray.java
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- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/GeneralRange.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Count.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SortedIterable.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RangeSet.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractRangeSet.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SortedIterables.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMultiset.java

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- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/CollectSpliterators.java

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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/Java8Compatibility.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/hash/Java8Compatibility.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/math/ToDoubleRounder.java
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jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/MinMaxPriorityQueue.java
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jar/com/google/common/collect/ForwardingSortedSetMultimap.java
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- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ParametricNullness.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/ParametricNullness.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/ParametricNullness.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/xml/ParametricNullness.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/ParametricNullness.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/ParametricNullness.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/ParametricNullness.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/ParametricNullness.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/html/ElementTypesAreNonnullByDefault.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/ElementTypesAreNonnullByDefault.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/ElementTypesAreNonnullByDefault.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/ElementTypesAreNonnullByDefault.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/util/concurrent/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ParametricNullness.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/eventbus/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/net/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/ParametricNullness.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/reflect/ParametricNullness.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/ParametricNullness.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/escape/ParametricNullness.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/ParametricNullness.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/ImmediateFuture.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/FakeTimeLimiter.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/PatternFilenameFilter.java
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/*
* This following method is a modified version of one found in
* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
* which contained the following notice:
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*
* Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.
*/
```

Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/MoreExecutors.java
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```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/PatternCompiler.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/CommonPattern.java
```

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*/

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* This method was rewritten in Java from an intermediate step of the Murmur hash function in

* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the

* following header:

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*/

Found in path(s):

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/SmallCharMatcher.java

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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/VerifyException.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/MapMaker.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/JdkFutureAdapters.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/xml/XmlEscapers.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/MapMakerInternalMap.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Platform.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/html/HtmlEscapers.java

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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/package-info.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/FinalizablePhantomReference.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Function.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Objects.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionList.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Functions.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/Resources.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/Files.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Predicates.java

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- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/DescendingMultiset.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FilteredSetMultimap.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FilteredEntryMultimap.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableAsList.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/CompactLinkedHashSet.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractMultimap.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableList.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableMap.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TransformedIterator.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/DescendingImmutableSortedSet.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EvictingQueue.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/CompactLinkedHashMap.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingDeque.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FilteredEntrySetMultimap.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractNavigableMap.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FilteredKeySetMultimap.java
- * /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimap.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/CompactHashSet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/CompactHashMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TreeRangeMap.java

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/**

* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.
*/

Found in path(s):

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/primitives/FloatsMethodsForWeb.java

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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/MacHashFunction.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/LittleEndianByteArray.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/CombinedFuture.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/ReaderInputStream.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/InterruptibleTask.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/AggregateFutureState.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/FarmHashFingerprint64.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/AsyncCallable.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ConsumingQueueIterator.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/Platform.java

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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/math/Stats.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/xml/package-
info.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
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jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/html/package-info.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/reflect/MutableTypeToInstanceMap.java

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```

Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMapEntry.java
```

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```

Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableSortedAsList.java
```

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```

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express
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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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```

Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/MutableClassToInstanceMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ForwardingListIterator.java
```

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ArrayListMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableSet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ComparatorOrdering.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ConcurrentHashMultiset.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EnumBiMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Lists.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/LinkedListMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/HashMultiset.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Ordering.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/BiMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ClassToInstanceMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ReverseOrdering.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SortedSetMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableList.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Multimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/LinkedHashMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/package-info.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Sets.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Interner.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/NullsLastOrdering.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingIterator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Multisets.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Maps.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/CompoundOrdering.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingCollection.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/SortedMultiset.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/SortedMultisets.java

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*/

/**

* Returns an array containing all of the elements in the specified collection. This method

* returns the elements in the order they are returned by the collection's iterator. The returned

* array is "safe" in that no references to it are maintained by the collection. The caller is

* thus free to modify the returned array.

*

* <p>This method assumes that the collection size doesn't change while the method is running.

*

* <p>TODO(kevinb): support concurrently modified collections?

*

* @param c the collection for which to return an array of elements

*/

Found in path(s):

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ObjectArrays.java

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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
*
* MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
* hereby disclaims copyright to this source code.
*/
```

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```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/Hashing.java
```

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```

Found in path(s):

```
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jar/com/google/common/collect/IndexedImmutableSet.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableMap.java
```

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/BaseImmutableMultimap.java

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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/annotations/package-info.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/Atomics.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/package-info.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SortedLists.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/package-info.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/annotations/Beta.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ContiguousSet.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Ascii.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Equivalence.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningExecutorService.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/Monitor.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Strings.java

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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/Traverser.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ClosingFuture.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/AbstractBaseGraph.java

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/BaseGraph.java

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*/

/**

* Holder for web specializations of methods of { @code Shorts}. Intended to be empty for regular

* version.

*/

Found in path(s):

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/ShortsMethodsForWeb.java

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Found in path(s):

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/Reflection.java

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Found in path(s):

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Streams.java

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Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/primitives/Platform.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/Internal.java
```

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Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/primitives/ImmutableDoubleArray.java
```

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManagerBridge.java

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*/

/**

* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular

* version.

*/

Found in path(s):

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/DoublesMethodsForWeb.java

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 */
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
 *   ImmutableSortedMap#of(Comparable, Object)}.</b>
 */
```

Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
```

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 */
/*
 * This method was written by Doug Lea with assistance from members of JCP JSR-166 Expert Group
```

* and released to the public domain, as explained at
* <http://creativecommons.org/licenses/publicdomain>
*
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* `java.util.HashMap` class.
*/

Found in path(s):

* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/Striped.java

1.1111 p-try 2.2.0

1.1111.1 Available under license :

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1.1112 node-progress 2.0.3

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1.1113 lodash.keys 3.1.2

1.1113.1 Available under license :

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```
/**
 * lodash 3.1.2 (Custom Build) <https://lodash.com/>
 * Build: `lodash modern modularize exports="npm" -o ./`
 * Copyright 2012-2015 The Dojo Foundation <http://dojofoundation.org/>
 * Based on Underscore.js 1.8.3 <http://underscorejs.org/LICENSE>
 * Copyright 2009-2015 Jeremy Ashkenas, DocumentCloud and Investigative Reporters & Editors
 * Available under MIT license <https://lodash.com/license>
 */
/**
 * Creates an array of the own enumerable property names of `object`.
 *
 * **Note:** Non-object values are coerced to objects. See the
 * [ES spec](http://ecma-international.org/ecma-262/6.0/#sec-object.keys)
 * for more details.
 *
 * @static
 * @memberOf _
 * @category Object
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names.
 * @example
 *
 * function Foo() {
 *   this.a = 1;
 *   this.b = 2;
 * }
 *
 * Foo.prototype.c = 3;
 */
```

```
* _.keys(new Foo);
* // => ['a', 'b'] (iteration order is not guaranteed)
*
* _.keys('hi');
* // => ['0', '1']
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078269328_1597281956.57/0/fis-components-lodash-keys-3-1-2-0-gc47407a-tar-gz/fis-components-lodash.keys-9efd785/index.js
```

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lodash v4.5.1

The [lodash](https://lodash.com/) library exported as a [UMD](https://github.com/umdjs/umd) module.

Generated using [lodash-cli](https://www.npmjs.com/package/lodash-cli):

```
```bash
$ npm run build
$ lodash -o ./dist/lodash.js
$ lodash core -o ./dist/lodash.core.js
```
```

Community

[![Gitter](https://badges.gitter.im/lodash/lodash.svg)](https://gitter.im/lodash/lodash)

Documentation

- * [API Documentation](https://lodash.com/docs)
- * [FP Guide](https://github.com/lodash/lodash/wiki/FP-Guide)

Download

Lodash is released under the [MIT license](https://raw.githubusercontent.com/lodash/lodash/4.5.1/LICENSE) & supports [modern environments](#support).

Review the [build differences](https://github.com/lodash/lodash/wiki/build-differences) & pick one thatâ€™s right for you.

- * [Core build](https://raw.githubusercontent.com/lodash/lodash/4.5.1/dist/lodash.core.js) ([~4 kB gzipped](https://raw.githubusercontent.com/lodash/lodash/4.5.1/dist/lodash.core.min.js))
- * [Full build](https://raw.githubusercontent.com/lodash/lodash/4.5.1/dist/lodash.js) ([~21 kB gzipped](https://raw.githubusercontent.com/lodash/lodash/4.5.1/dist/lodash.min.js))
- * [CDN copies](https://www.jsdelivr.com/projects/lodash)

Why Lodash?

Lodash makes JavaScript easier by taking the hassle out of working with arrays,

numbers, objects, strings, etc. Lodash's modular methods are great for:

- * Iterating arrays, objects, & strings
- * Manipulating & testing values
- * Creating composite functions

Module Formats

Lodash is available in a [variety of builds](<https://lodash.com/custom-builds>) & module formats.

- * [lodash](<https://www.npmjs.com/package/lodash>) & [per method packages](<https://www.npmjs.com/browse/keyword/lodash-modularized>)
- * [lodash-amd](<https://www.npmjs.com/package/lodash-amd>)
- * [lodash-es](<https://www.npmjs.com/package/lodash-es>) & [babel-plugin-lodash](<https://www.npmjs.com/package/babel-plugin-lodash>)
- * [lodash/fp](<https://github.com/lodash/lodash/tree/4.5.1-npm/fp>)

Further Reading

- * [Contributing](<https://github.com/lodash/lodash/blob/4.5.1/.github/CONTRIBUTING.md>)
- * [Release Notes](<https://github.com/lodash/lodash/releases/tag/4.0.0>)
- * [Wiki (Changelog, Roadmap, etc.)](<https://github.com/lodash/lodash/wiki>)

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- * /opt/ws_local/PERMITS_SQL/1078269328_1597281956.57/0/fis-components-lodash-keys-3-1-2-0-gc47407a-tar-gz/fis-components-lodash.keys-9efd785/README.md

1.1114 stylelint-scss 2.5.0

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1.1115 nuprocess 2.0.5

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```
* /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-
jar/com/zaxxer/nuprocess/internal/LibJava8.java
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* /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/codec/NuCharsetEncoderHandler.java

* /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/codec/NuCharsetDecoder.java

* /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/codec/NuCharsetDecoderHandler.java

* /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/codec/NuAbstractCharsetHandler.java

* /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/internal/ReferenceCountedFileDescriptor.java

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- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/internal/LibC.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/windows/WindowsProcess.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/linux/EpollEvent.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/internal/IEventProcessor.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/linux/ProcessEpoll.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/linux/LibEpoll.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/NuProcess.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/windows/ProcessCompletions.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/windows/NuKernel32.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/NuProcessBuilder.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/linux/LinProcessFactory.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/NuAbstractProcessHandler.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/osx/LibKevent.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/NuProcessHandler.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/osx/OsxProcess.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/windows/WinProcessFactory.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/internal/BaseEventProcessor.java
- * /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/NuProcessFactory.java

* /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/linux/LinuxProcess.java
* /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/osx/ProcessKqueue.java
* /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/com/zaxxer/nuprocess/osx/OsxProcessFactory.java

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* /opt/cola/permits/1487555659_1669619655.845155/0/nuprocess-2-0-5-sources-1-jar/META-INF/maven/com.zaxxer/nuprocess/pom.xml

1.1116 jsr305 3.0.0

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1.1117 lodash-merge 4.6.2

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1.1118 param-case 3.0.4

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1.1119 terser-webpack-plugin 1.4.5

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1.1120 error_prone_annotations 2.0.2

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1064082195_1593169272.55/0/error-prone-annotations-2-0-2-sources-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/ws_local/PERMITS_SQL/1064082195_1593169272.55/0/error-prone-annotations-2-0-2-sources-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/ws_local/PERMITS_SQL/1064082195_1593169272.55/0/error-prone-annotations-2-0-2-sources-
jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/ws_local/PERMITS_SQL/1064082195_1593169272.55/0/error-prone-annotations-2-0-2-sources-
jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/ws_local/PERMITS_SQL/1064082195_1593169272.55/0/error-prone-annotations-2-0-2-sources-
jar/com/google/errorprone/annotations/ForOverride.java
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```
* /opt/ws_local/PERMITS_SQL/1064082195_1593169272.55/0/error-prone-annotations-2-0-2-sources-
jar/com/google/errorprone/annotations/NoAllocation.java
* /opt/ws_local/PERMITS_SQL/1064082195_1593169272.55/0/error-prone-annotations-2-0-2-sources-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/ws_local/PERMITS_SQL/1064082195_1593169272.55/0/error-prone-annotations-2-0-2-sources-
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
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1.1121 iconv-lite v0.4.24

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1.1122 yauzl 2.10.0

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1.1123 lodash-truncate 4.4.2

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1.1124 javassist 3.20.0-GA

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Found in path(s):

```
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
```

* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/StringMemberValue.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ClassFileWriter.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/Handler.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtNewConstructor.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/ControlFlow.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/web/Webserver.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformReadField.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/ClassPool.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/CannotCreateException.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/util/HotSwapper.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-

jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CodeConverter.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/stackmap/MapMaker.java
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jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/Compiler/CannotCompileException.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/convert/TransformWriteField.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/ConstantAttribute.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
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- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ByteStream.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/stackmap/Tracer.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/MemberResolver.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/LongVector.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/SyntaxError.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtNewNestedClass.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtNewMethod.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/URLClassPath.java

* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/Parser.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/Translator.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/CallExpr.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/ProxyFactory.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtArray.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/Proxy.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/Javac.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/SerializedProxy.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/Cast.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Variable.java

1.1125 webpack/loader-utils 1.4.0

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1.1126 rome 1.0

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 */
```

Found in path(s):

```
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/io/impl/Atom10Generator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/io/impl/RSS094Parser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/module/ModuleImpl.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/module/DCSubjectImpl.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/rss/Cloud.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/synd/SyndLinkImpl.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/module/SyModuleImpl.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
```

jar/com/sun/syndication/io/impl/RSS20Generator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/synd/SyndFeed.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/io/WireFeedOutput.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/io/WireFeedInput.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/rss/Description.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/io/SyndFeedInput.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/module/DCModule.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/synd/impl/ConverterForRSS091Netscape.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/io/impl/ModuleParsers.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/synd/impl/ConverterForAtom03.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/io/impl/RSS10Parser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/synd/SyndContentImpl.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/io/impl/FeedParsers.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/synd/SyndContent.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/synd/Converter.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/synd/SyndEntryImpl.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/io/impl/RSS20Parser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/atom/Link.java
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jar/com/sun/syndication/io/impl/RSS20wNSParser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/io/impl/RSS091UserlandGenerator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/atom/Content.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/io/ParsingFeedException.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/io/impl/Atom10Parser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/io/impl/SyModuleGenerator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
jar/com/sun/syndication/feed/module/Module.java

* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/RSS090Generator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/module/DCSubject.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/SyndEntry.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/SyndImageImpl.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS093.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS090.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/rss/Content.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/rss/TextInput.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/RSS094Generator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/DCModuleGenerator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/atom/Person.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/rss/Category.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/atom/Entry.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS091Userland.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/ModuleParser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/ModuleGenerator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/SyndCategory.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/PluginManager.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/impl/ToStringBean.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/WireFeedGenerator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/RSS091NetscapeParser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/RSS093Generator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/impl/Converters.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/SyModuleParser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/atom/Category.java

* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/FeedException.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/DCModuleParser.java
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* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/FeedGenerators.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/SyndLink.java
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* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/rss/Source.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/atom/Generator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/module/SyModule.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/WireFeed.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/rss/Image.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/WireFeedParser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/ModuleGenerators.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/impl/BeanIntrospector.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/Atom03Parser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/impl/ConverterForAtom10.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/RSS090Parser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/SyndCategoryImpl.java
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* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS092.java

* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/RSS093Parser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/impl/CopyFromHelper.java
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* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/rss/Channel.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/Base64.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/SyndPerson.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/rss/Enclosure.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/impl/CloneableBean.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/impl/ObjectBean.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/RSS091UserlandParser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/CopyFrom.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/RSS092Parser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS10.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS20.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/RSS092Generator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/SyndImage.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/RSS091NetscapeGenerator.java
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* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/SyndFeedOutput.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/impl/EqualsBean.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/rss/Guid.java
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1.1131 kubernetes-model 4.13.3

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jar/io/fabric8/kubernetes/api/model/admission/AdmissionRequest.java
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1.1132 jest-worker 25.5.0

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1.1133 css-color-names 0.0.4

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1.1134 expect 25.5.0

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1.1135 @jasonpincin/standard 10.0.3

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1.1136 medikoo-next-tick 1.0.0

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1.1137 spdx-exceptions 2.3.0

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- *Feist Publications, Inc., v. Rural Telephone Service Co.*,
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* /opt/ws_local/PERMITS_SQL/1047874382_1590657590.07/0/spdx-exceptions-2-3-0-1-
tgz/package/README.md

1.1138 apache-httpcomponents-core 4.4.14

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1.1139 es5-ext 0.10.53

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1.1140 oz-regexp 1.4

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- * /opt/cola/permits/1538690604_1681866272.7769682/0/archive-259-zip/recompile.java
- * /opt/cola/permits/1538690604_1681866272.7769682/0/archive-259-zip/REDemo.java
- * /opt/cola/permits/1538690604_1681866272.7769682/0/archive-259-zip/CharArrayCharacterIterator.java
- * /opt/cola/permits/1538690604_1681866272.7769682/0/archive-259-zip/REDebugCompiler.java
- * /opt/cola/permits/1538690604_1681866272.7769682/0/archive-259-zip/RESyntaxException.java
- * /opt/cola/permits/1538690604_1681866272.7769682/0/archive-259-zip/CharacterIterator.java
- * /opt/cola/permits/1538690604_1681866272.7769682/0/archive-259-zip/RE.java
- * /opt/cola/permits/1538690604_1681866272.7769682/0/archive-259-zip/StringCharacterIterator.java
- * /opt/cola/permits/1538690604_1681866272.7769682/0/archive-259-zip/REProgram.java
- * /opt/cola/permits/1538690604_1681866272.7769682/0/archive-259-zip/REUtil.java
- * /opt/cola/permits/1538690604_1681866272.7769682/0/archive-259-zip/ReaderCharacterIterator.java
- * /opt/cola/permits/1538690604_1681866272.7769682/0/archive-259-zip/RETest.java

1.1141 types-minimatch 3.0.5

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1.1142 type-check 0.4.0

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1.1143 webpack-dev-server 3.11.2

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1.1144 kajability.tools.java 1.0.0.0

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1.1145 read-pkg 3.0.0

1.1146 jna 5.11.0

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1.1147 stun-server 0.97

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1.1148 hmac-drbg 1.0.1

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1.1149 hamcrest 1.3

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1.1150 jest-environment-jsdom 25.5.0

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1.1151 mississippi 3.0.0

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1.1152 jackson 2.13.4

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1.1153 hibernate-validator 6.2.0.Final

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 */
/**
 * Retrieves constraint related meta data for the parameters of the given
 * executable.
 *
 * @param javaBeanExecutable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */
```

Found in path(s):

```
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/time/DurationMaxValidator.java
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* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/constraints/URL.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/BeanMetaDataImpl.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MinValidatorForDouble.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/package-info.java

```
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/metadata/BeanMetaDataClassNormalizer.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForLocalTime.
java
```

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```
/*
* Hibernate Validator, declare and validate application constraints
*
* License: Apache License, Version 2.0
* See the license.txt file in the root directory or <http://www.apache.org/licenses/LICENSE-2.0>.
*/
/**
* <p>
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* <p>
* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* { @link javax.validation.ParameterNameProvider }. The default provider will
* return the actual parameter names, if the -parameters compiler option
* has been enabled, and { @code arg0 }, { @code arg1 } etc. otherwise.
* </p>
* <p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* { @code @ParameterScriptAssert(script = "start.before(end)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* <p>
* Can be specified on any method or constructor.
* </p>
*
* @author Gunnar Morling
*/
```

Found in path(s):

```
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
```

jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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```
/*
 * Hibernate Validator, declare and validate application constraints
 *
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 */
/*
 * Written by Doug Lea with assistance from members of JCP JSR-166
 * Expert Group and released to the public domain, as explained at
 * http://creativecommons.org/licenses/publicdomain
 */
```

Found in path(s):

```
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java
No license file was found, but licenses were detected in source scan.
```

```
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 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/util/TypeHelper.java
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```

```
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~
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```

Found in path(s):

```
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/META-
```

INF/validation-configuration-1.1.xsd
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/META-INF/validation-configuration-1.0.xsd
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/META-INF/maven/org.hibernate.validator/hibernate-validator/pom.xml
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/META-INF/validation-mapping-2.0.xsd
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/META-INF/validation-mapping-1.0.xsd
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/overview.html
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/META-INF/validation-mapping-1.1.xsd
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/META-INF/validation-configuration-2.0.xsd

1.1154 argparse 0.8.1

1.1155 node-error-ex 1.3.2

1.1155.1 Available under license :

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1.1156 jetty-webapp 9.4.26.v20200117

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.1157 find-cache-dir 2.1.0

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1.1158 unpipe 1.0.0

1.1159 neko-html 1.9.14

1.1160 wsdl4j 1.5.1

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1.1162 jackson-xc 2.14.0

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1.1164 is-alphanumeric 1.0.0

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1.1168 @babel/eslint-parser 7.19.1

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1.1169 log4j-over-slf4j 1.7.36

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* /opt/cola/permits/1282430134_1646467465.09/0/log4j-over-slf4j-1-7-36-jar/META-INF/maven/org.slf4j/log4j-over-slf4j/pom.xml

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* /opt/cola/permits/1612236893_1679586137.5856493/0/boon-0-33-sources-2-jar/org/boon/core/reflection/impl/MethodAccessImpl.java
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* /opt/cola/permits/1612236893_1679586137.5856493/0/boon-0-33-sources-2-jar/org/boon/validation/FieldValidator.java
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1.1171 jackson-module-parameter-names

2.13.2

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1.1172 loud-rejection 1.6.0

1.1173 Iodash 4.17.21

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1.1176 whatwg-url v7.1.0

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1.1178 jersey-guice 1.19.4

1.1179 svgo 0.7.2

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1.1180 webpack-dev-middleware 3.7.3

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1.1181 jetty-security 9.4.48.v20220622

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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.1182 **minimist-options 3.0.2**

1.1182.1 Available under license :

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1.1183 **system-componentmodel-annotations**

4.0.0.0

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Martin Richards
23 February 2007
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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  </PropertyGroup>
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    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
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    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
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Title: Dealing with commas in a CSV file

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Question author: Bob The Janitor -- <https://stackoverflow.com/users/55102/bob-the-janitor>

Answer author: harp -- <https://stackoverflow.com/users/4525/harpo>

Use:

<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738>

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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with

classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.1185 json-parse-better-errors 1.0.2

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1.1186 lodash._baseisequal 3.0.7

1.1186.1 Available under license :

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/**

- * lodash 3.0.7 (Custom Build) <<https://lodash.com/>>
- * Build: `lodash modern modularize exports="npm" -o .`
- * Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>
- * Based on Underscore.js 1.8.3 <<http://underscorejs.org/LICENSE>>
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* /opt/ws_local/PERMITS_SQL/1078269346_1597281748.02/0/fis-components-lodash-baseisequal-3-0-7-0-gc5027b6-tar-gz/fis-components-lodash._baseisequal-51158f9/index.js

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lodash v4.6.1

The [lodash](<https://lodash.com/>) library exported as a [UMD](<https://github.com/umdjs/umd>) module.

Generated using [lodash-cli](<https://www.npmjs.com/package/lodash-cli>):

```
```bash
```

```
$ npm run build
```

```
$ lodash -o ./dist/lodash.js
```

```
$ lodash core -o ./dist/lodash.core.js
```

```
```
```

Community

[![Gitter](<https://badges.gitter.im/lodash/lodash.svg>)](<https://gitter.im/lodash/lodash>)

Documentation

* [API Documentation](<https://lodash.com/docs>)

* [FP Guide](<https://github.com/lodash/lodash/wiki/FP-Guide>)

Download

Lodash is released under the [MIT license](<https://raw.githubusercontent.com/lodash/lodash/4.6.1/LICENSE>) & supports [modern environments](#support).

Review the [build differences](<https://github.com/lodash/lodash/wiki/build-differences>) & pick one thatâ€™s right for you.

* [Core build](<https://raw.githubusercontent.com/lodash/lodash/4.6.1/dist/lodash.core.js>) ([~4 kB gzipped](<https://raw.githubusercontent.com/lodash/lodash/4.6.1/dist/lodash.core.min.js>))

* [Full build](<https://raw.githubusercontent.com/lodash/lodash/4.6.1/dist/lodash.js>) ([~21 kB gzipped](<https://raw.githubusercontent.com/lodash/lodash/4.6.1/dist/lodash.min.js>))

* [CDN copies](<https://www.jsdelivr.com/projects/lodash>)

Why Lodash?

Lodash makes JavaScript easier by taking the hassle out of working with arrays,
 numbers, objects, strings, etc. Lodashâ€™s modular methods are great for:

* Iterating arrays, objects, & strings

* Manipulating & testing values

* Creating composite functions

Module Formats

Lodash is available in a [variety of builds](<https://lodash.com/custom-builds>) & module formats.

* [lodash](<https://www.npmjs.com/package/lodash>) & [per method packages](<https://www.npmjs.com/browse/keyword/lodash-modularized>)

* [lodash-amd](<https://www.npmjs.com/package/lodash-amd>)

* [lodash-es](<https://www.npmjs.com/package/lodash-es>) & [babel-plugin-lodash](<https://www.npmjs.com/package/babel-plugin-lodash>)

* [lodash/fp](<https://github.com/lodash/lodash/tree/4.6.1-npm/fp>)

Further Reading

* [Contributing](<https://github.com/lodash/lodash/blob/4.6.1/.github/CONTRIBUTING.md>)

* [Release Notes](<https://github.com/lodash/lodash/releases/tag/4.0.0>)

* [Wiki (Changelog, Roadmap, etc.)](<https://github.com/lodash/lodash/wiki>)

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* /opt/ws_local/PERMITS_SQL/1078269346_1597281748.02/0/fis-components-lodash-baseisequal-3-0-7-0-gc5027b6-tar-gz/fis-components-lodash._baseisequal-51158f9/README.md

1.1187 core.system.serviceprocess 2.0.1

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1.1188 error_prone_annotations 2.3.4

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```
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/FormatString.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/FormatMethod.java
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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CheckReturnValue.java

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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/Immutable.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/ForOverride.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/Var.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CompileTimeConstant.java

```
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
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jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/NoAllocation.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
```

1.1189 postcss-modules-extract-imports 1.2.1

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1.1190 prop-types 15.6.0

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1.1191 shindig-extras 2.0.2

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1.1192 system-configuration-configurationmanager 4.5.0

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<http://www.cl.cam.ac.uk/~mr10/Bench/README>

Please feel free to re-implement this benchmark in any language you choose. I would be happy to incorporate such translations into this distribution together with their timing/size results.

Martin Richards

23 February 2007

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```
<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
```

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```
new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
  new XElement("p", "This work may be freely copied and distributed worldwide.")
)
```

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This is a port of the SciMark2a Java Benchmark to C# by
Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

For details on the original authors see <http://math.nist.gov/scimark2>

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<Project.Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile>\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

<!--

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file
in the dotnet home directory.

-->

<ItemGroup>

<TpnRepo Include="dotnet/runtime" />

<TpnRepo Include="dotnet/aspnetcore" />

<TpnRepo Include="dotnet/installer" />

<TpnRepo Include="dotnet/roslyn-analyzers" />

<TpnRepo Include="dotnet/templating" />

<TpnRepo Include="dotnet/winforms" />

<TpnRepo Include="dotnet/wpf" />

<!--

Additional repos that should be included but don't have any third-party-notices files:

dotnet/efcore

```
dotnet/emsdk
dotnet/extensions
dotnet/icu
dotnet/sdk
dotnet/windowsdesktop
dotnet/linker
-->
```

```
<TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>
```

```
<RegenerateThirdPartyNotices
  TpnFile="$(TpnFile)"
  PotentialTpnPaths="@ (PotentialTpnPath)"
  TpnRepos="@ (TpnRepo)" />
```

```
<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>
```

```
</Project>
```

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<https://github.com/madler/zlib>
https://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 27th, 2022

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jloup@gzip.org madler@alumni.caltech.edu

*/

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Bit Twiddling Hacks

By Sean Eron Anderson
seander@cs.stanford.edu

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 27th, 2022

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2018 January 20

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** Rick Grehan, BYTE Magazine

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1.1193 figures 1.7.0

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1.1194 utila 0.4.0

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1.1195 ant 1.10.12

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1.1196 jest-source-map 25.5.0

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1.1198 postcss-focus-visible 4.0.0

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1.1199 diffie-hellman 5.0.3

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1.1204 freemarker 2.3.27

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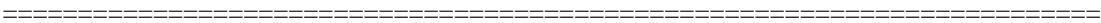
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1.1205 metrics-logback 4.1.31

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.logback

Build-Jdk-Spec: 1.8

Bundle-Description: An instrumented appender for Logback.

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Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Logback
Bundle-SymbolicName: io.dropwizard.metrics.logback
Bundle-Version: 4.1.31
Created-By: Apache Maven Bundle Plugin 5.1.4
Export-Package: com.codahale.metrics.logback;uses:="ch.qos.logback.classic.spi,ch.qos.logback.core,com.codahale.metrics";version="4.1.31"
Implementation-Title: Metrics Integration for Logback
Implementation-Version: 4.1.31
Import-Package: ch.qos.logback.classic;version="[1.2,2)",ch.qos.logback.classic.spi;version="[1.2,2)",ch.qos.logback.core;version="[1.2,2)",com.codahale.metrics;version="[4.1,5)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1317858369_1651151746.66/0/metrics-logback-4-1-31-jar/META-INF/MANIFEST.MF

1.1206 gozala-events 3.3.0

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1.1207 @humanwhocodes/config-array 0.5.0

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1.1208 jest-haste-map 25.5.1

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1.1209 log4j-slf4j-impl 2.19.0

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1.1210 antlr4-annotations 4.3

1.1211 stream-shift 1.0.1

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1.1212 protobuf 3.5.1, 3.11.4, 3.4.0, 3.13.0, 3.20.1

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1.1213 generate-object-property 1.2.0

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1.1214 math-random 1.0.4

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1.1216 simple-swizzle 0.2.2

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1.1217 jersey-container-servlet 2.35

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1.1218 commons-lang3 3.7

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/**

* Constructs a new {@link SourceInterpreter} for the latest ASM API version. *<i>*Subclasses must
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* version.
*/

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 * Constructs a new { @link BasicInterpreter } for the latest ASM API version. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the { @link #BasicInterpreter(int) }
 * version.
 */
```

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jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
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1.1225 visual-studio-runtime 6.10.9359.0

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Martin Richards
23 February 2007

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http://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.11, January 15th, 2017

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By Sean Eron Anderson
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    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
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1.1228 reduce-css-calc 1.3.0

1.1229 zt 1.14

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```
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/AsiExtraField.java
```

* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/extra/ZipLong.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/extra/ZipExtraField.java
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* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/extra/ZipConstants.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/extra/UnrecognizedExtraField.java
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* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/commons/IOUtils.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/commons/FileUtilsV2_2.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/commons/StringBuilderWriter.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/commons/FilenameUtils.java
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- * /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZipInfoCallback.java
- * /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/NameMapper.java
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- * /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZipEntryUtil.java
- * /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/timestamps/PreJava8TimestampStrategy.java
- * /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/Zips.java
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- * /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/timestamps/TimestampStrategyFactory.java
- * /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZipEntryCallback.java

1.1230 jest-types 25.5.0

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1.1234 unified 6.2.0

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1.1243 functional-red-black-tree 1.0.1

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1.1249 logform 2.3.0

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1.1250 classmate 1.1.0

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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1.1252 jackson-jaxrs-base 2.12.2

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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* /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-jar/org/atteo/moonshine/jta/JtaService.java
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jar/org/atteo/moonshine/jta/TransactionalInterceptor.java
* /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-jar/org/atteo/moonshine/jta/Transaction.java
* /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-jar/org/atteo/moonshine/jta/Transactional.java
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* /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-jar/org/atteo/moonshine/jta/JtaConnectionFactoryWrapper.java

* /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-jar/org/atteo/moonshine/jta/TransactionalService.java

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1.1257 javax-annotation-api 1.2

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1.1259 google-guava v29.0

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Found in path(s):

```
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/RegularImmutableBiMap.java
```

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/Table.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableEntry.java

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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/PatternCompiler.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/CommonMatcher.java

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*/

/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the
* following header:
*
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/SmallCharMatcher.java

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/**

* Not supported. You are attempting to create a map that may contain a non-{@code Comparable}

* key. Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy

* version.

*

* @throws UnsupportedOperationException always

* @deprecated Pass a key of type {@code Comparable} to use {@link

* `ImmutableSortedMap#of(Comparable, Object)}`.

*/

Found in path(s):

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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*/

/**

* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/primitives/FloatsMethodsForWeb.java

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jar/com/google/common/graph/MutableGraph.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/io/InsecureRecursiveDeleteException.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/graph/PredecessorsFunction.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/graph/MutableNetwork.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/graph/ImmutableGraph.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/graph/Graph.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/io/RecursiveDeleteOption.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/graph/ImmutableNetwork.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/TopKSelector.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/graph/SuccessorsFunction.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/graph/Network.java

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jar/com/google/common/graph/Graphs.java

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jar/com/google/common/net/MediaType.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/hash/Funnel.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/base/PairwiseEquivalence.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/base/Enums.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/cache/package-info.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/cache/AbstractCache.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/hash/AbstractCompositeHashFunction.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/collect/EmptyContiguousSet.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/hash/PrimitiveSink.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/hash/AbstractStreamingHasher.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/hash/HashingOutputStream.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/cache/CacheStats.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/RegularImmutableMultiset.java
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jar/com/google/common/hash/MessageDigestHashFunction.java
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jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Absent.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Present.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Optional.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/Cache.java

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- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/hash/AbstractHashFunction.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/primitives/ImmutableLongArray.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingLock.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/primitives/ImmutableIntArray.java

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- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/hash/package-info.java

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/*

* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the
* following header:
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jar/com/google/common/collect/Hashing.java

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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Ascii.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/SortedLists.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/annotations/package-info.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Equivalence.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/Atomics.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/ContiguousSet.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Strings.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/net/package-info.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/annotations/VisibleForTesting.java

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jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/graph/Traverser.java
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* the License.  
*/  
/**  
* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular  
* version.  
*/
```

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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Platform.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
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- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/FinalizableReference.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/Flushables.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/FinalizableWeakReference.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/Charsets.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/FinalizablePhantomReference.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/HashBiMap.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/Function.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/package-info.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/LineReader.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/ByteStreams.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/LineBuffer.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/Closeables.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/ListenableFuture.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/Suppliers.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/Predicate.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/Supplier.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/CountingInputStream.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/FinalizableSoftReference.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/base/Functions.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Predicates.java
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jar/com/google/common/io/Files.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/io/Resources.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/io/package-info.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Objects.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/EnumMultiset.java

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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/ForwardingListMultimap.java
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- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableSortedAsList.java

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- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/CompactHashSet.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/SortedMultisetBridge.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ForwardingNavigableSet.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/FilteredSetMultimap.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/AbstractMultimap.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ForwardingDeque.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ForwardingImmutableList.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/RangeMap.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/FilteredEntryMultimap.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/CompactLinkedHashMap.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/TransformedIterator.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/CompactHashMap.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/TreeTraverser.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/TreeRangeMap.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ForwardingImmutableSet.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/AllEqualOrdering.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/EvictingQueue.java
- * /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
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* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's

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*/

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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/JdkBackedImmutableBiMap.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/BaseImmutableMultimap.java

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*/

/**

* Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular

* version.

*/

Found in path(s):

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/primitives/ShortsMethodsForWeb.java

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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/CombinedFuture.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/hash/FarmHashFingerprint64.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/hash/MacHashFunction.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ConsumingQueueIterator.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/Platform.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/AsyncCallable.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/hash/LittleEndianByteArray.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/ReaderInputStream.java

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*/
/**
* Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/primitives/DoublesMethodsForWeb.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/hash/LongAdder.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/cache/LongAdder.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/eventbus/SubscriberRegistry.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/hash/ImmutableSupplier.java

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jar/com/google/common/collect/Streams.java

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jar/com/google/common/collect/GwtTransient.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/AtomicLongMap.java

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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/Interner.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableList.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ForwardingIterator.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/package-info.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ReverseOrdering.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/Multisets.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ForwardingSortedSet.java
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jar/com/google/common/collect/AbstractMapBasedMultiset.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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jar/com/google/common/collect/ReverseNaturalOrdering.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/collect/ComparatorOrdering.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/Multimap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/CompoundOrdering.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/ClassToInstanceMap.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
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jar/com/google/common/util/concurrent/IgnoreJRERRequirement.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableEnumSet.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ForwardingTable.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/Closer.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/math/PairedStats.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/RateLimiter.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/math/LinearTransformation.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/FileWriteMode.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/reflect/Invokable.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/cache/LongAddables.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/BaseEncoding.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/cache/LongAddable.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/reflect/package-info.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/reflect/Parameter.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/escape/package-info.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableRangeSet.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableRangeMap.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/CartesianList.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/html/package-info.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/hash/LongAddable.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/reflect/ClassPath.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/hash/LongAddables.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/ByteSource.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/ByteSink.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/math/PairedStatsAccumulator.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/reflect/TypeCapture.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/reflect/TypeToInstanceMap.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/CharSource.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/math/Stats.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/hash/ChecksumHashFunction.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/StandardSystemProperty.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/ServiceManager.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/hash/AbstractByteHasher.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/CharSink.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/math/StatsAccumulator.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/MoreFiles.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/collect/ImmutableMapEntry.java

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*/

/**

* Returns an array containing all of the elements in the specified collection. This method

* returns the elements in the order they are returned by the collection's iterator. The returned

* array is "safe" in that no references to it are maintained by the collection. The caller is

* thus free to modify the returned array.

*

* <p>This method assumes that the collection size doesn't change while the method is running.

*

* <p>TODO(kevinb): support concurrently modified collections?

*

* @param c the collection for which to return an array of elements

*/

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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/primitives/Chars.java
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*/  
/**  
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular  
* version.  
*/
```

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*/
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/ForwardingSortedMultiset.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/Count.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/RangeSet.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/GeneralRange.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/RegularImmutableSortedMultiset.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-

jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/AbstractRangeSet.java
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jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
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jar/com/google/common/graph/package-info.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/primitives/Platform.java
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 */
/**
 * Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
 * {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
 * under GWT but with a slightly different signature.
 */
```

```
* <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler wouldn't recognize
* it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

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```
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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jar/com/google/common/collect/MoreCollectors.java
```

```
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/graph/MapRetrievalCache.java
```

```
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
```

```
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
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jar/com/google/common/graph/ValueGraphBuilder.java
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```

```
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/graph/StandardNetwork.java
```

```
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-
jar/com/google/common/graph/EndpointPair.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/graph/DirectedGraphConnections.java
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* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/graph/StandardMutableValueGraph.java

* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1530133681_1675768787.5786078/0/guava-29-0-jre-sources-jar/com/google/common/graph/GraphConstants.java
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Martin Richards
23 February 2007

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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```
<Project Sdk="Microsoft.NET.Sdk">
```

```
<PropertyGroup>
```

```
<OutputType>Exe</OutputType>
```

```
<ApplicationManifest>App.manifest</ApplicationManifest>
```

```
<!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
```

```
<IlrtTestKind>BuildOnly</IlrtTestKind>
```

```
<!-- Test unsupported outside of windows -->
```

```
<TestUnsupportedOutsideWindows>>true</TestUnsupportedOutsideWindows>
```

```
<DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
```

```
<!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
```

```
<UnloadabilityIncompatible>true</UnloadabilityIncompatible>
```

```

</PropertyGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
  <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
  <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
</ItemGroup>
<ItemGroup>
  <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>

```

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Content: <https://stackoverflow.com/a/769713>

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Answer author: harp -- <https://stackoverflow.com/users/4525/harpo>

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<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738>

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1.1262 setprototypeof 1.1.1

1.1263 httpcomponents-mime 4.5.13

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  <![endif]-->
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    if($(this).scrollTop() != 0) {
      $("#toTop").fadeIn();
    } else {
      $("#toTop").fadeOut();
    }
  });

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});
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us.css":1,"modules\system\system.messages.css":1,"modules\system\system.theme.css":1,"modules\aggregator\
aggregator.css":1,"modules\comment\comment.css":1,"modules\field\theme\field.css":1,"sites\all\modules\mol
lom\mollom.css":1,"modules\node\node.css":1,"modules\search\search.css":1,"modules\user\user.css":1,"sites\
all\modules\views\css\views.css":1,"sites\all\modules\ctools\css\ctools.css":1,"\maxcdn.bootstrapcdn.com\
bootstrap\3.2.0\css\bootstrap.min.css":1,"sites\all\libraries\superfish\css\superfish.css":1,"sites\all\themes\bo

```



```

otstrap-business\css\style.css":1,"sites\all\themes\bootstrap-
business\color\colors.css":1,"sites\all\themes\bootstrap-business\css\local.css":1,"sites\all\themes\bootstrap-
business\css\ie8.css":1}},"urlIsAjaxTrusted":{"\licenses\cddl1.php":true},"superfish":{"1":{"id":"1","sf":{"anima
tion":{"opacity":"show","height":"show"},"speed":"\u0027fast\u0027","autoArrows":false,"dropShadows":true,"dis
ableHI":false},"plugins":{"touchscreen":{"mode":"window_width"},"smallscreen":{"mode":"window_width"},"add
Selected":false,"menuClasses":false,"hyperlinkClasses":false,"title":"Navigation"},"supposition":true,"bgiframe":fal
se,"supersubs":{"minWidth":"12","maxWidth":"27","extraWidth":1}}}}});
//--><![]]>
</script>
</head>
<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-47 node-type-page" >
<div id="skip-link">
  <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>
<div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>

<!-- #header-top -->
<div id="header-top" class="clearfix">
  <div class="container">

    <!-- #header-top-inside -->
    <div id="header-top-inside" class="clearfix">
      <div class="row">

        <div class="col-md-8">
          <!-- #header-top-left -->
          <div id="header-top-left" class="clearfix">
            <div class="region region-header-top-left">
              <div id="block-menu-secondary-menu" class="block block-menu clearfix">

                <div class="content">
                  <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
                  <li class="leaf"><a href="/blog" title="">From the Board</a></li>
                  <li class="leaf"><a href="/contact" title="">Contact</a></li>
                  <li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
                </ul> </div>
              </div>
            </div>
          </div>
          <!-- EOF:#header-top-left -->
        </div>

        <div class="col-md-4">
          <!-- #header-top-right -->
          <div id="header-top-right" class="clearfix">

```

```

    <div class="region region-header-top-right">
<div id="block-search-form" class="block block-search clearfix">

<div class="content">
  <form action="/licenses/cddl1.php" method="post" id="search-block-form" accept-charset="UTF-8"><div><div
class="container-inline">
  <h2 class="element-invisible">Search form</h2>
  <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) { this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) { this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
bHQObyvdpYpP9q-Fw-RUMqMbj_-M2JMQxkrV017VnrI" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
</div>
  </div>
  <!-- EOF:#header-top-right -->
</div>

</div>
</div>
<!-- EOF: #header-top-inside -->

</div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
  <div class="container">

    <!-- #header-inside -->
    <div id="header-inside" class="clearfix">
      <div class="row">
        <div class="col-md-8">

          <div id="logo">
            <a href="/" title="Home" rel="home">  </a>
          </div>

```

```

                <div id="site-name">
                <a href="/" title="Home">Open Source Initiative</a>
                </div>

                </div>

                <div class="col-md-4">

                </div>
                </div>
                </div>
                <!-- EOF: #header-inside -->

                </div>
                </header>
                <!-- EOF: #header -->

                <!-- #main-navigation -->
                <div id="main-navigation" class="clearfix">
                <div class="container">

                <!-- #main-navigation-inside -->
                <div id="main-navigation-inside" class="clearfix">
                <div class="row">
                <div class="col-md-12">
                <nav role="navigation">
                <div class="region region-navigation">
                <div id="block-superfish-1" class="block block-superfish clearfix">

                <div class="content">
                <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
                items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
                children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
                depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
                href="/history" title="History of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle
                even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a
                href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1"
                class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With
                Annotations" class="sf-depth-3">Board - Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-
                depth-3 sf-no-children"><a href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-
                3">Minutes</a></li><li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a
                href="/organization" title="These portfolios represent the activities of the current OSI board." class="sf-depth-
                3">Organization & Operations</a></li><li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-
                children"><a href="/articles-of-incorporation" title="OSI incorporation record" class="sf-depth-3">Articles of
                Incorporation</a></li><li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children"><a

```

[Board Elections](/elections)

- [Bylaws](/bylaws "Bylaws of the Open Source Initiative")
- [Conflict of Interest](/conflict_of_interest_policy)

- [Trademark & Logo](/trademark)
 - [Trademark Guidelines](/trademark-guidelines "OSI's Trademark Policy")
 - [Logo Guidelines](/logo-usage-guidelines "Guidelines for appearance and usage of OSI Logo")
- [Terms of Service](/ToS "Rules for posting content on this site")

- [Licenses](/licenses)
 - [Open Source Definition](/osd "The actual OSD defining what constitutes an Open Source licence")
 - [OSD - Annotated](/osd-annotated "The OSD with explanations and rationale interspersed.")
 - [Licenses by Category](/licenses/category "Licenses by Category")
 - [Licenses by Name](/licenses/alphabetical "Licenses that are approved by the OSI as conforming to the OSD")
 - [License Review Process](/approval "Certifying licences as OSD-compliant")
 - [Licence Proliferation](/proliferation "Supporting choice while maintaining sanity")
 - [LP report to the Board](/proliferation-report "License Proliferation Committee's report to the OSI Board")
- [Open Standards](/osr-intro "Open Standards Requirement for Software")
 - [The Open Standards Requirement](/osr "An ")
 - [Open Standards Requirement Compliance](/osr-compliance)
 - [Open Standards Requirement Rationale](/osr-rationale)
 - [OSR Frequently Asked Questions](/osr-faq "Frequently asked questions about the Open Standards Requirement")
- [Membership](/membership "Page for our various membership programs")
 - [Individuals](/members)
 - [Join](/civicrm/contribute/transact?reset=1&id=1)
 - [Affiliates](/affiliates "Home page for OSI's membership scheme for non-profits and not-for-profits")
 - [---

Open Source Used In Cisco Unified Contact Center Enterprise 12.6\(2\) 6712](/affiliates/about)


```

        <!-- EOF: #main-navigation-inside -->

    </div>
</div>
<!-- EOF: #main-navigation -->

<!-- #page -->
<div id="page" class="clearfix">

    <!-- #main-content -->
    <div id="main-content">
        <div class="container">

            <!-- #messages-console -->
                <!-- EOF: #messages-console -->

            <div class="row">

                <section class="col-md-12">

                    <!-- #main -->
                    <div id="main" class="clearfix">

                        <!-- EOF:#content-wrapper -->
                        <div id="content-wrapper">

                            <h1 class="page-title">Common Development and Distribution
License (CDDL-1.0)</h1>

                                <!-- #tabs -->
                                    <div class="tabs">
                                        </div>
                                    <!-- EOF: #tabs -->

                                <!-- #action links -->
                                    <!-- EOF: #action links -->

                                <div class="region region-content">
                                <div id="block-system-main" class="block block-system clearfix">

```

```
<div class="content">
  <article id="node-47" class="node node-page clearfix">
```

```
<div class="content">
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><div align="right">
<button onclick="myFunction()">Further resources on <b>CDDL-1.0</b></button>
```

```
<p id="demo"></p>
```

```
<script>
<!----><![CDATA[// ><!--
```

```
function myFunction() {
  var x;
  if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it
does not endorse any content, contributors or license interpretations from these websites. Any links to these
resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
    x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/common-development-and-distribution-license-%28cddl-1.0%29-explained
style='font-weight: bold;'>Common Development and Distribution License (CDDL-1.0) on TLDRLegal<br><a
href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a
href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License
List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
href=choosealicense.com>Choosealicense";
  } else {
    x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}
```

```
//--><![&]]>
</script></div>
```

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE

Version 1.0 (CDDL-1.0)

(text)

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</div></div></div> </div>

</article> </div>

</div>

</div>

</div>

<!-- EOF:#content-wrapper -->

</div>

<!-- EOF:#main -->

</section>

</div>

</div>

</div>

<!-- EOF:#main-content -->

</div>

<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">

<div class="container">

<!-- #subfooter-inside -->

<div id="subfooter-inside" class="clearfix">

<div class="row">

<div class="col-md-12">

<!-- #subfooter-left -->

<div class="subfooter-area">


```

<div class="region region-footer">
  <div id="block-block-11" class="block block-block clearfix">

  <div class="content">
    <div class="filler" style="vertical-align: middle; display: inline-block;">
  <p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
  <a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
  vertical-align: middle;"></a>

  <a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
  center; vertical-align: middle;"></a>

  <a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
  cell; text-align: center; vertical-align: middle;"></a>

  <a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
  middle;"></a>

  <a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
  center; vertical-align: middle;"></a>

  <script id="fbwiuwz">
  <!----><![CDATA[// ><!--
  (function(i){var
  f,s=document.getElementById(i);f=document.createElement('iframe');f.src="//api.flattr.com/button/view/?uid=osi&u
  rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
  rtBefore(f,s);})('fbwiuwz');
  //--><![]]>
  </script></p>
  </div>

  <br /><div class="license" style="vertical-align: middle; display: inline-block;">
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  </div>

```

```

</div>
</div>
<div id="block-block-7" class="block block-block clearfix">

<div class="content">
  <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--

//--><!]]>
</script><script type="text/javascript">
<!--/--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();

//--><!]]>
</script> </div>
</div>
</div>

      </div>
      <!-- EOF: #subfooter-left -->
    </div>
  </div>
</div>
<!-- EOF: #subfooter-inside -->

</div>
</footer>
<!-- EOF:#subfooter -->
</body>
</html>

```

1.1268 @nicolo-ribaudo/eslint-scope-5-internals 5.1.1-v1

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1.1278 classnames 2.3.1

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*

* Xlib Extension-Writing Utilities

*

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1.1292 snake-yaml 1.33

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```
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 * the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-
jar/org/yaml/snakeyaml/util/ArrayUtils.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-
jar/org/yaml/snakeyaml/serializer/SerializerException.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-
jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-
jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-
jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-
jar/org/yaml/snakeyaml/events/CollectionStartEvent.java
```

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/emitter/Emitter.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/scanner/Constant.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/constructor/Constructor.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/scanner/Scanner.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/parser/ParserImpl.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/FlowSequenceEndToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/scanner/ScannerException.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/NodeEvent.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/Yaml.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/reader/ReaderException.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/DumperOptions.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/AnchorToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/emitter/EmitterException.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/representer/Representer.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/emitter/Emitable.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/error/MarkedYAMLEException.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/nodes/NodeTuple.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/CommentToken.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/introspector/MissingProperty.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/introspector/FieldProperty.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/comments/CommentLine.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/constructor/CustomClassLoaderConstructor.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/ScalarEvent.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/representer/Represent.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/nodes/MappingNode.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/TagToken.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/KeyToken.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/constructor/Construct.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/nodes/AnchorNode.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/FlowMappingStartToken.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/introspector/BeanAccess.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/constructor/ConstructorException.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/StreamStartEvent.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/nodes/Node.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/MappingEndEvent.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/serializer/Serializer.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/error/Mark.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/reader/StreamReader.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/error/YAMLException.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/TypeDescription.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/composer/ComposerException.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/nodes/NodeId.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/StreamEndEvent.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/util/UriEncoder.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/nodes/Tag.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/parser/Production.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/reader/UnicodeReader.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/Event.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/introspector/MethodProperty.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/constructor/SafeConstructor.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/DocumentEndToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/introspector/GenericProperty.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/scanner/SimpleKey.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/util/EnumUtils.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/CommentEvent.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/ImplicitTuple.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/parser/ParserException.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/emitter/EmitterState.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/TagTuple.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/nodes/SequenceNode.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/LoaderOptions.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/MappingStartEvent.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/introspector/Property.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/resolver/Resolver.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/parser/Parser.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/AliasEvent.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/comments/CommentType.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/nodes/CollectionNode.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/util/ArrayStack.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/composer/Composer.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/AliasToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/ScalarToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/ValueToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/Token.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java

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* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java

* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java

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// BSD, BSD License, http://www.opensource.org/licenses/bsd-license.php
/**
 * A Base64 encoder/decoder.
 *
 * <p>
 * This class is used to encode and decode data in Base64 format as described in RFC 1521.
 *
 * <p>
 * Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
 * source-code.biz/base64coder/java</a><br>
 * Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
 * Multi-licensed: EPL / LGPL / GPL / AL / BSD.
 */
```

Found in path(s):

```
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-
jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java
```

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```
* /opt/cola/permits/1501142303_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/META-
INF/maven/org.yaml/snakeyaml/pom.xml
```

1.1293 libressl 3.4.2

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1.1294 hash.js 1.1.7

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```

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```
# hash.js [![Build Status](https://secure.travis-ci.org/indutny/hash.js.svg)](http://travis-ci.org/indutny/hash.js)
```

Just a bike-shed.

```
## Install
```

```
```sh
```

```
npm install hash.js
```

```
```
```

Usage

```
```js
var hash = require('hash.js')
hash.sha256().update('abc').digest('hex')
```
```

Selective hash usage

```
```js
var sha512 = require('hash.js/lib/hash/sha/512');
sha512().update('abc').digest('hex');
```
```

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1.1295 clean-webpack-plugin 0.1.19

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1.1296 get-stdin 5.0.1

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1.1297 commons-configuration 1.10

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1.1298 microsoft-build-tasks-core 4.0

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1.1299 gson 2.10

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Build-Jdk-Spec: 17
Bnd-LastModified: 1666660169762
Bundle-ContactAddress: <https://github.com/google/gson>
Bundle-Description: Gson JSON library
Bundle-DocURL: <https://github.com/google/gson/gson>
Bundle-License: "Apache-2.0";link="<https://www.apache.org/licenses/LICENSE-2.0.txt>"
Bundle-ManifestVersion: 2
Bundle-Name: Gson
Bundle-RequiredExecutionEnvironment: JavaSE-1.7, JavaSE-1.8
Bundle-SCM: url="<https://github.com/google/gson/gson/>",connection="scm:git:<https://github.com/google/gson.git/gson>",developer-connection="scm:git:[github.com:google/gson.git/gson](https://github.com/google/gson.git/gson)",tag="gson-parent-2.10"
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Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.google.gson.stream";version="2.10.0",com.google.gson.annotations;version="2.10.0",com.google.gson.reflect;version="2.10.0",com.google.gson.stream;version="2.10.0"
Import-Package: sun.misc;resolution:=optional,com.google.gson.annotations
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.3.1.202206071316
Multi-Release: true

Found in path(s):

* /opt/cola/permits/1501397172_1670465940.2721026/0/gson-2-10-2-jar/META-INF/MANIFEST.MF

1.1300 rimraf 2.7.1

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1.1301 reduce-function-call 1.0.3

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1.1302 newtonsoft-json 1.0.0.0

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1.1303 async-limiter v1.0.1

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1.1304 namespace 1.4.01

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1.1306 jackson-databind 2.13.2.2

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1.1309 jaxb-core 2.3.3

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1.1321 jasper-el 6.0.29

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jar/org/jboss/jandex/JandexAntTask.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassInfo.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/IndexReader.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/IndexReaderV1.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassType.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/PackedDataOutputStream.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Index.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/MethodParameterInfo.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInfo.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/IndexWriterV1.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/PackedDataInputStream.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/PrimitiveType.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/StrongInternPool.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Indexer.java

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* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInternal.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInfoGenerator.java

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* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriterV2.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/VoidType.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodInfoGenerator.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodParameterTypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInfoGenerator.java

* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ThrowsTypeTarget.java
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* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/GenericSignatureParser.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodInternal.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriterImpl.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexReaderImpl.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassExtendsTypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/UnresolvedTypeVariable.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeParameterBoundTypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/AnnotationTargetFilterCollection.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/PositionBasedTypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Utils.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/EmptyTypeTarget.java

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1.1323 @webassemblyjs/wasm-opt 1.9.0

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1.1325 jakarta-xml-ws-api 2.3.3

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1.1326 Icid 1.0.0

1.1327 parse-json 4.0.0

1.1328 commons-logging 1.1.3

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1.1334 tomcat-dbc 9.0.69

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1.1344 system-directoryservices 4.0.0.0

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Additional -

File: PSReadLine

<https://github.com/lzybkr/PSReadLine>

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File: Hashtables from ConvertFrom-json

<https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h>

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PackageManagement

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1.1345 is-wsl 1.1.0

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1.1346 javassist 3.27.0-GA

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```
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```

Found in path(s):

```
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Member.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtConstructor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/Mnemonic.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtArray.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Parser.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/DefineClassHelper.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/SubroutineScanner.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtMember.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ExceptionTable.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/StubGenerator.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/CodeAnalyzer.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/URLClassPath.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/CannotReflectException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/CallExpr.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/KeywordTable.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/SymbolTable.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/Subroutine.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/Inner.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/Modifier.java
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jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/Opcodes.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiType.java

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/*
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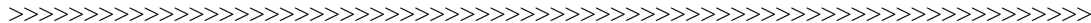
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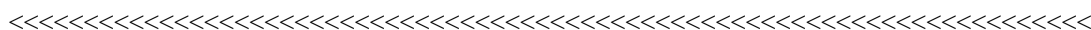
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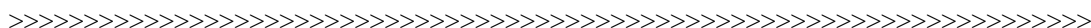


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1.1349 regexp-prototype-flags 1.3.1

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1.1350 combined-stream 1.0.8

1.1351 locate-path 3.0.0

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1.1352 commons-logging 1.1.1

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1.1353 range-parser v1.2.1

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1.1354 escape-html 1.0.3

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[![Chai Documentation](http://chaijs.com/public/img/chai-logo.png)](http://chaijs.com)

Chai is a BDD / TDD assertion library for [node](http://nodejs.org) and the browser that can be delightfully paired with any javascript testing framework.

For more information or to download plugins, view the [documentation](http://chaijs.com).

Related Projects

- [chaijs/assertion-error](https://github.com/chaijs/assertion-error): Custom `Error` constructor thrown upon an assertion failing.

Contributors

project : chai
repo age : 1 year, 7 months
active : 136 days
commits : 678
files : 55
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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.1358 hk2-locator 2.6.1

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1.1359 react-redux v5.1.2

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1.1360 safer-buffer 2.1.2

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1.1362 jeromq 0.3.5

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1.1373 json-smart 2.4.8

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Manifest-Version: 1.0

Bnd-LastModified: 1644737862078

Build-Jdk: 11.0.14

Built-By: uriel

Bundle-Description: JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.

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Bundle-ManifestVersion: 2

Bundle-Name: json-smart

Bundle-SymbolicName: net.minidev.json-smart

Bundle-Vendor: Chemouni Uriel

Bundle-Version: 2.4.8

Created-By: Apache Maven Bundle Plugin

Export-Package: net.minidev.json;uses:="net.minidev.asm,net.minidev.json.parser,net.minidev.json.reader,net.minidev.json.writer";version="2.4.8",net.minidev.json.annotate;version="2.4.8",net.minidev.json.parser;uses:="net.minidev.json.writer";version="2.4.8",net.minidev.json.reader;uses:="net.minidev.json";version="2.4.8",net.minidev.json.writer;uses:="net.minidev.json,net.minidev.json.parser";version="2.4.8"

Import-Package: net.minidev.asm;version="[2.4,3)",net.minidev.json,net.minidev.json.annotate,net.minidev.json.parser,net.minidev.json.reader,net.minidev.json.writer

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

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1.1375 system-componentmodel-composition

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Additional -

File: PSReadLine

<https://github.com/lzybkr/PSReadLine>

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File: Hashtables from ConvertFrom-json

<https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h>

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PackageManagement

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1.1376 har-validator 5.1.5

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1.1378 dropwizard-jetty 2.0.29

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1.1379 getpass 0.1.7

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1.1380 requires-port 1.0.0

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1.1381 @webassemblyjs/helper-api-error 1.9.0

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1.1382 jettison 1.5.3

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1.1383 es6-set 0.1.5

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1.1384 vinyl-virtual-file-format 2.2.1

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1.1385 type-fest 0.20.2

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Martin Richards

23 February 2007

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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```
<Project Sdk="Microsoft.NET.Sdk">
```

```
<PropertyGroup>
```

```
<OutputType>Exe</OutputType>
```

```
<ApplicationManifest>App.manifest</ApplicationManifest>
```

```
<!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
```

```

<IrtTestKind>BuildOnly</IrtTestKind>
<!-- Test unsupported outside of windows -->
<TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
<DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
<!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
<UnloadabilityIncompatible>true</UnloadabilityIncompatible>
</PropertyGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
  <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
  <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
</ItemGroup>
<ItemGroup>
  <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>

```

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Answer author: harp -- <https://stackoverflow.com/users/4525/harpo>

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<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738>

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1.1399 caller-path 0.1.0

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1.1402 node-cookie-signature 1.0.6

1.1403 commons-pool 2.0

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1.1408 classmate 1.3.4

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1.1410 postcss-reporter 5.0.0

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1.1411 annotations 13.0

1.1412 async-each 1.0.3

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```
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```

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```
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```

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```

1.1413 isexe 2.0.0

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1.1414 ezmorph 1.0.6

1.1415 default-gateway 4.2.0

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1.1416 coreclr 4.8.3761.0

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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%% winjs version 4.4.0 (<https://github.com/winjs/winjs>)

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1.1417 stateless4j 2.5.0

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 */
```

Found in path(s):

```
* /opt/cola/permits/1320330290_1651524963.22/0/stateless4j-2-5-0-sources-7-
jar/com/github/oxo42/stateless4j/delegates/FuncBoolean.java
* /opt/cola/permits/1320330290_1651524963.22/0/stateless4j-2-5-0-sources-7-
jar/com/github/oxo42/stateless4j/OutVar.java
```

1.1418 detect-newline v3.1.0

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1.1419 regex-cache 0.4.4

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1.1420 normalize-path 3.0.0

1.1421 pkg-dir 3.0.0

1.1422 original 1.0.2

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1.1423 ini4j 0.3.2

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1.1425 spdy-transport 3.0.0

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- * /opt/cola/permits/1001161065_1611299667.03/0/json-lib-2-2-3-jdk15-sources-zip/net/sf/json/JSONArray.java
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* /opt/cola/permits/1001161065_1611299667.03/0/json-lib-2-2-3-jdk15-sources-
zip/net/sf/json/processors/PropertyNameProcessor.java

1.1427 ext 1.6.0

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1.1429 leven 3.1.0

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1.1430 dns-packet 1.3.4

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1.1431 abab 2.0.5

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1.1432 redux-thunk 2.3.0

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1.1434 jackson-annotations 2.13.2

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1.1435 destroy 1.0.4

1.1436 json-schema-traverse 0.4.1

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1.1437 qs-qs-querystring 6.5.2

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1.1438 types-glob 7.1.4

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1.1439 cssdb 4.4.0

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1.1440 jackson-datatype-guava 2.13.2

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1.1441 prr 1.0.1

1.1442 jaxrpc-api 1.1

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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<inceptionYear>2014</inceptionYear>

<organization>
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  <url>http://www.sixdimensions.com</url>
</organization>
<developers>
  <developer>
    <name>Dan Klco</name>
    <email>dan.klco@sixdimensions.com</email>
  </developer>
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          </Embed-Dependency>
        </instructions>
      </configuration>
    </plugin>
  </plugins>
</build>

```

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  javax.xml.rpc.encoding,
  javax.xml.rpc.handler,
  javax.xml.rpc.handler.soap,
  javax.xml.rpc.holders,
  javax.xml.rpc.server,
  javax.xml.rpc.soap
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  </executions>
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</plugin>

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  <artifactId>jaxrpc-api</artifactId>
  <version>1.1</version>
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  </property>
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</profiles>
</project>
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Found in path(s):

* /opt/cola/permits/1445493785_1669620132.5698369/0/jaxrpc-api-jaxrpc-api-1-1-1-zip/jaxrpc-api-jaxrpc-api-1.1/pom.xml

1.1443 jackson-jaxrs-base 2.12.7

1.1443.1 Available under license :

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1.1444 nodejs-asn1 0.2.4

1.1444.1 Available under license :

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1.1445 fecha 4.2.1

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1.1446 animal-sniffer-annotation 1.19

1.1446.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1258876677_1643115784.16/0/animal-sniffer-annotations-1-19-sources-jar/META-INF/maven/org.codehaus.mojo/animal-sniffer-annotations/pom.xml

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/*

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*/

Found in path(s):

* /opt/cola/permits/1258876677_1643115784.16/0/animal-sniffer-annotations-1-19-sources-jar/org/codehaus/mojo/animal_sniffer/IgnoreJRERequirement.java

1.1447 select-hose 2.0.0

1.1447.1 Available under license :

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Select Hose

[![Build Status](https://secure.travis-ci.org/indutny/select-hose.png)](http://travis-ci.org/indutny/select-hose)
[![NPM version](https://badge.fury.io/js/select-hose.svg)](http://badge.fury.io/js/select-hose)

Hose the data to the handler

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Found in path(s):

* /opt/cola/permits/1145695516_1616283452.64/0/indutny-select-hose-v2-0-0-0-gee7caf9-1-tar-gz/indutny-select-hose-99b34fa/README.md

1.1448 es6-map 0.1.5

1.1448.1 Available under license :

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1.1449 merge-descriptors 1.0.1

1.1450 is-ci 2.0.0

1.1451 libjpeg 6a

1.1451.1 Available under license :

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```
/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */
```

Found in path(s):

```
*/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcinit.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * transupp.c
 *
 * Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */
```

Found in path(s):

```
*/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/transupp.c
```

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```
/*
 * jmorecfg.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 1997-2013 by Guido Vollbeding.
```

- * This file is part of the Independent JPEG Group's software.
- * For conditions of distribution and use, see the accompanying README file.
- *
- * This file contains additional configuration options that customize the
- * JPEG software for special applications or support machine-dependent
- * optimizations. Most users will not need to touch this file.
- */

Found in path(s):

*/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmorecfg.h

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/*

* jfdctint.c

*

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- * Modification developed 2003-2015 by Guido Vollbeding.
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*

- * This file contains a slow-but-accurate integer implementation of the
- * forward DCT (Discrete Cosine Transform).

*

- * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
- * on each column. Direct algorithms are also available, but they are
- * much more complex and seem not to be any faster when reduced to code.

*

- * This implementation is based on an algorithm described in
- * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
- * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
- * Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.

* The primary algorithm described there uses 11 multiplies and 29 adds.

* We use their alternate method with 12 multiplies and 32 adds.

- * The advantage of this method is that no data path contains more than one
- * multiplication; this allows a very simple and accurate implementation in
- * scaled fixed-point arithmetic, with a minimal number of shifts.

*

- * We also provide FDCT routines with various input sample block sizes for
- * direct resolution reduction or enlargement and for direct resolving the
- * common 2x1 and 1x2 subsampling cases without additional resampling: NxN
- * (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.

*

* For N<8 we fill the remaining block coefficients with zero.

- * For N>8 we apply a partial N-point FDCT on the input samples, computing
- * just the lower 8 frequency coefficients and discarding the rest.

*

* We must scale the output coefficients of the N-point FDCT appropriately

* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling

* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jfdctint.c
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/*

* jddctmgr.c

*

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*

* This file contains the inverse-DCT management logic.

* This code selects a particular IDCT implementation to be used,

* and it performs related housekeeping chores. No code in this file

* is executed per IDCT step, only during output pass setup.

*

* Note that the IDCT routines are responsible for performing coefficient

* dequantization as well as the IDCT proper. This module sets up the

* dequantization multiplier table needed by the IDCT routine.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jddctmgr.c
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/*

* jidctfst.c

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*

* This file contains a fast, not so accurate integer implementation of the

* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine

* must also perform dequantization of the input coefficients.

*

* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT

* on each row (or vice versa, but it's more convenient to emit a row at

* a time). Direct algorithms are also available, but they are much more

* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jidctfst.c
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/*

* jcmarker.c
*
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*
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcmarker.c
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/*

* wrtle.c
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*
* This file contains routines to write output images in RLE format.

* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrrle.c
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/*

* jcmaster.c

*

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*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcmaster.c
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/*

* jdmainct.c

*

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*
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmainct.c

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/*

* jdmerge.c

*

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*

* This file contains code for merged upsampling/color conversion.

*

* This file combines functions from jdsample.c and jdcOLOR.c;

* read those files first to understand what's going on.

*

* When the chroma components are to be upsampled by simple replication

* (ie, box filtering), we can save some work in color conversion by

* calculating all the output pixels corresponding to a pair of chroma

* samples at one time. In the conversion equations

* $R = Y + K1 * Cr$

* $G = Y + K2 * Cb + K3 * Cr$

* $B = Y + K4 * Cb$

* only the Y term varies among the group of pixels corresponding to a pair

* of chroma samples, so the rest of the terms can be calculated just once.

* At typical sampling ratios, this eliminates half or three-quarters of the

* multiplications needed for color conversion.

*

* This file currently provides implementations for the following cases:

* YCC => RGB color conversion only (YCbCr or BG_YCC).

* Sampling ratios of 2h1v or 2h2v.

* No scaling needed at upsample time.

* Corner-aligned (non-CCIR601) sampling alignment.

* Other special cases could be added, but in most applications these are

* the only common cases. (For uncommon cases we fall back on the more

* general code in jdsample.c and jdcOLOR.c.)

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmerge.c

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The Independent JPEG Group's JPEG software

=====

README for release 9c of 14-Jan-2018

=====

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DOCUMENTATION ROADMAP

=====

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or

more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

=====

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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=====

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The Unix configuration script "configure" was produced with GNU Autoconf.

It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES

=====

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT

technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.iwg.org.
The most recent released version can always be found there in
directory "files". This particular version will be archived as
<http://www.iwg.org/files/jpegsr.v9c.tar.gz>, and in Windows-compatible
"zip" archive format as <http://www.iwg.org/files/jpegsr9c.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some
general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/>
and other news.answers archive sites, including the official news.answers
archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS

=====

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FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.

IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was.

The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.

IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/README
No license file was found, but licenses were detected in source scan.

/*

* jcpam.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2003-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.
*
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcparam.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

/*

* jpeglib.h

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2002-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file defines the application interface for the JPEG library.

* Most applications using the library need only include this file,

* and perhaps jerror.h if they want to know the exact error codes.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*

* jdpostct.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the decompression postprocessing controller.

* This controller manages the upsampling, color conversion, and color

* quantization/reduction steps; specifically, it controls the buffering

* between upsample/color conversion and color quantization/reduction.

*

* If no color quantization/reduction is required, then this module has no

* work to do, and it just hands off to the upsample/color conversion code.

* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*

* jpegint.h

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 1997-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file provides common declarations for the various JPEG modules.

* These declarations are considered internal to the JPEG library; most

* applications using the library shouldn't need to include this file.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpegint.h
No license file was found, but licenses were detected in source scan.

/*

* jcdctmgr.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2003-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the forward-DCT management logic.

* This code selects a particular DCT implementation to be used,

* and it performs related housekeeping chores including coefficient

* quantization.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*

* ckconfig.c

*

* Copyright (C) 1991-1994, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/ckconfig.c

No license file was found, but licenses were detected in source scan.

/*

* jdct.h

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2002-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This include file contains common declarations for the forward and

* inverse DCT modules. These declarations are private to the DCT managers

* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.

* The individual DCT algorithms are kept in separate files to ease

* machine-dependent tuning (e.g., assembly coding).

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdct.h

No license file was found, but licenses were detected in source scan.

/*

* jcsample.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains downsampling routines.

*

* Downsampling input data is counted in "row groups". A row group

* is defined to be max_v_samp_factor pixel rows of each component,

* from which the downsampler produces v_samp_factor sample rows.

* A single row group is processed in each call to the downsampler module.

*

* The downsampler is responsible for edge-expansion of its output data

* to fill an integral number of DCT blocks horizontally. The source buffer

* may be modified if it is helpful for this purpose (the source buffer is

* allocated wide enough to correspond to the desired output width).

* The caller (the prep controller) is responsible for vertical padding.

*

* The downsampler may request "context rows" by setting need_context_rows

* during startup. In this case, the input arrays will contain at least

- * one row group's worth of pixels above and below the passed-in data;
- * the caller will create dummy rows at image top and bottom by replicating
- * the first or last real pixel row.
- *
- * An excellent reference for image resampling is
- * Digital Image Warping, George Wolberg, 1990.
- * Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
- *
- * The downsampling algorithm used here is a simple average of the source
- * pixels covered by the output pixel. The hi-falutin sampling literature
- * refers to this as a "box filter". In general the characteristics of a box
- * filter are not very good, but for the specific cases we normally use (1:1
- * and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
- * nearly so bad. If you intend to use other sampling ratios, you'd be well
- * advised to improve this code.
- *
- * A simple input-smoothing capability is provided. This is mainly intended
- * for cleaning up color-dithered GIF input files (if you find it inadequate,
- * we suggest using an external filtering program such as pnmconvol). When
- * enabled, each input pixel P is replaced by a weighted sum of itself and its
- * eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
- * where SF = (smoothing_factor / 1024).
- * Currently, smoothing is only supported for 2h2v sampling factors.
- */

Found in path(s):

*/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcsample.c
 No license file was found, but licenses were detected in source scan.

```
/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed RLE format).
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
```

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdrle.c

No license file was found, but licenses were detected in source scan.

/*

* jdatadst.c

/*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2009-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

/*

* This file contains compression data destination routines for the case of

* emitting JPEG data to memory or to a file (or any stdio stream).

* While these routines are sufficient for most applications,

* some will want to use a different destination manager.

* IMPORTANT: we assume that fwrite() will correctly transcribe an array of

* JOCTETs into 8-bit-wide elements on external storage. If char is wider

* than 8 bits on your machine, you may need to do some tweaking.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdatadst.c

No license file was found, but licenses were detected in source scan.

/*

* jversion.h

/*

* Copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

/*

* This file contains software version identification.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jversion.h

No license file was found, but licenses were detected in source scan.

/*

* cjpeg.c

/*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2003-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

```
*
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* cjpeg [options] inputfile outputfile
* cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/
```

Found in path(s):

```
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cjpeg.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* jmemdos.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides an MS-DOS-compatible implementation of the system-
* dependent portion of the JPEG memory manager. Temporary data can be
* stored in extended or expanded memory as well as in regular DOS files.
*
* If you use this file, you must be sure that NEED_FAR_POINTERS is defined
* if you compile in a small-data memory model; it should NOT be defined if
* you use a large-data memory model. This file is not recommended if you
* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than
* 2-byte boundaries.
*
* Based on code contributed by Ge' Weijers.
*/
```

Found in path(s):

```
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemdos.c
No license file was found, but licenses were detected in source scan.
```



```
/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * Modified 2000-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */
```

Found in path(s):

```
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jctrans.c
```

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The distribution includes the JPEG library proper, plus two application programs ("cjpeg" and "djpeg") which use the library to convert JPEG files to and from some other popular image formats. A third application "jpegtran" uses the library to do lossless conversion between different variants of JPEG. There are also two stand-alone applications, "rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY

=====

Include files:

jpeglib.h JPEG library's exported data and function declarations.

jconfig.h Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.

jpegint.h Additional configuration declarations; need not be changed for a standard installation.

jpegerror.h Declares JPEG library's error and trace message codes.

jpeginclude.h Central include file used by all IJG .c files to reference system include files.

jpegint.h JPEG library's internal data structures.

jdct.h Private declarations for forward & reverse DCT subsystems.

jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jpegim.c Application program interface: core routines for compression.
jpegstd.c Application program interface: standard compression.
jdatamin.c Application program interface: core routines for decompression.
jdatstd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jtparam.c Compression parameter setting helper routines.
jtrans.c API and library routines for transcoding compression.
jdatrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jcmaint.c Main buffer controller (preprocessor => JPEG compressor).
jcrepct.c Preprocessor buffer controller.
jccoefct.c Buffer controller for DCT coefficient buffer.
jccolor.c Color space conversion.
jcsample.c Downsampling.
jcdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jhuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jcmarker.c JPEG marker writing.
jdatadst.c Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.
jdinput.c Input controller: controls input processing modules.
jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoefct.c Buffer controller for DCT coefficient buffer.
jdpostct.c Postprocessor buffer controller.
jdmarker.c JPEG marker reading.
jdhuff.c Huffman entropy decoding.
jdarith.c Arithmetic entropy decoding.
jddctmgr.c IDCT manager (IDCT implementation selection & control).
jidctint.c Inverse DCT using slow-but-accurate integer method.
jidctfst.c Inverse DCT using faster, less accurate integer method.
jidctflt.c Inverse DCT using floating-point arithmetic.
jdsample.c Upsampling.
jdcolor.c Color space conversion.
jdmerge.c Merged upsampling/color conversion (faster, lower quality).
jquant1.c One-pass color quantization using a fixed-spacing colormap.
jquant2.c Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
jdatasrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c Tables for common use in arithmetic entropy encoding and decoding routines.
jerror.c Standard error handling routines (application replaceable).
jmemmgr.c System-independent (more or less) memory management code.
jutils.c Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs.c "No backing store": assumes adequate virtual memory exists.
jmemansi.c Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c Makes temporary files with program-generated file names.
jmemdos.c Custom implementation for MS-DOS (16-bit environment only):
can use extended and expanded memory as well as temp files.
jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use).

On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm 80x86 assembly code support for jmemdos.c; used only in

MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

=====

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cderror.h Additional error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.
rdswitch.c Code to process some of cjpeg's more complex switches.
Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).
rdppm.c PPM/PGM file input.
rdrlc.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
wrppm.c PPM/PGM file output.
wrrlc.c Utah RLE file output.
wrtarga.c Targa file output.

RDJPGCOM/WRJPGCOM

=====

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES

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Documentation (see README for a guide to the documentation files):

README Master documentation file.

*.txt Other documentation files.

*.1 Documentation in Unix man page format.

change.log Version-to-version change highlights.

example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.

configure.ac Source file for use with Autoconf to generate configure.

ltmain.sh Support scripts for configure (from GNU libtool).

config.guess

config.sub

depcomp

missing

ar-lib

compile

install-sh Install shell script for those Unix systems lacking one.

Makefile.in Makefile input for configure.

Makefile.am Source file for use with Automake to generate Makefile.in.

ckconfig.c Program to generate jconfig.h on non-Unix systems.

jconfig.txt Template for making jconfig.h by hand.

mak*.* Sample makefiles for particular systems.

jconfig.* Sample jconfig.h for particular systems.

libjpeg.map Script to generate shared library with versioned symbols.

libjpeg.pc.in libjpeg.pc pkg-config file input for configure.

aclocal.m4 M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*.* Source and comparison files for confidence test.

These are binary image files, NOT text files.

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/filelist.txt

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

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This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:

- A "component" means a color channel, e.g., Red or Luminance.
- A "sample" is a single component value (i.e., one number in the image data).
- A "coefficient" is a frequency coefficient (a DCT transform output number).
- A "block" is an array of samples or coefficients.
- An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:

- * A subroutine library for JPEG compression and decompression.
- * cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. The library does not support the hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about

what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.
2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.
3. Data precision. We assume that "char" is at least 8 bits, "short" and

"int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:

- * Color space conversion (e.g., RGB to YCbCr).
- * Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:

- * MCU assembly, DCT, quantization.
- * Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:

- * Entropy decoding (sequential or progressive, Huffman or arithmetic).
- * Dequantization, inverse DCT, MCU disassembly.

Postprocessing:

- * Upsampling. Optionally, this step may be able to do more general rescaling of the image.

- * Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [currently it does not].
 - * Optional color quantization (e.g., reduction to 256 colors).
 - * Optional color precision reduction (e.g., 24-bit to 15-bit color).
- [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see `jdatadst.c`, which implements the external interface specified by struct `jpeg_destination_mgr`, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing.

The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself

appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
          |           |           |
          ----- controller -----
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of

control modules.)

* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```

                                |-- Colospace conversion
|-- Preprocessing controller --|
|                                |-- Downsampling
Main controller --|
|                                |-- Forward DCT, quantize
|-- Coefficient controller --|
|                                |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colospace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colospace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as V_{max} pixel rows of each component before downsampling, and V_k sample rows afterwards (remember V_k differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of `block_size` samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of `block_size` rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for `RSTn`, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

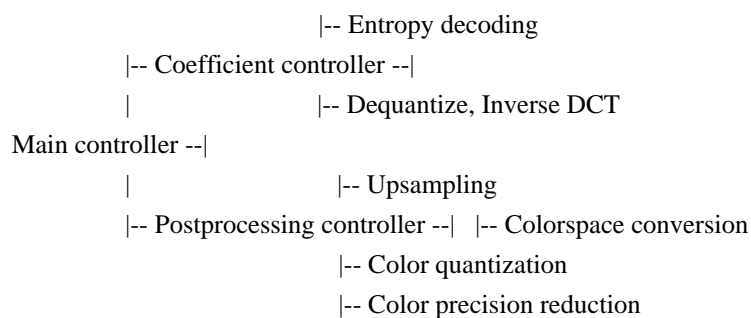
- * Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).
- * Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.
- * Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:



As before, this diagram also represents typical control flow. The objects shown are:

- * Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

- * Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

- * Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

- * Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

- * Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

- * Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

- * Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

- * Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: `jdinput.c` controls only input-side processing, while `jdmaster.c` handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.
2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get

arbitrarily far ahead of the data output processing. (This occurs only if the application calls `jpeg_consume_input()`; otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See `libjpeg.txt` for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. `jpeg_consume_input()` is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the `cinfo` data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
```

The basic element type `JSAMPLE` will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is

necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "(int) (value)" elsewhere.

With these conventions, JSAMPLE values can be assumed to be ≥ 0 . This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

- * Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
- * Indexing doesn't require multiplication; this is a performance win on many machines.
- * Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
- * The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications

that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```
typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKS, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspensible processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to

empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment,

so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does **not** cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling `jpeg_finish_compress()` will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever `malloc/free` are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

- * `JPOOL_PERMANENT` lasts until master record is destroyed
- * `JPOOL_IMAGE` lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, `JPOOL_PASS` = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:

* On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.

* Pool allocation heuristics may differ for large and small objects.

Note that individual "large" objects cannot exceed the size allowed by type `size_t`, which may be 64K or less on some machines.

3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their `jinit_xxx` routines.
 2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
 3. `realize_virt_arrays` will be called at the completion of initial setup.
- The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that

the total space used for small objects will be small enough to be negligible in the `realize_virt_arrays` computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing `realize_virt_arrays` to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in `jdcoefct.c` for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (`jmemmgr.c`) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

`jpeg_mem_init`, `jpeg_mem_term` system-dependent initialization/shutdown

`jpeg_get_small`, `jpeg_free_small` interface to `malloc` and `free` library routines (or their equivalents)

`jpeg_get_large`, `jpeg_free_large` interface to FAR `malloc/free` in MSDOS machines; else usually the same as `jpeg_get_small/jpeg_free_small`

`jpeg_mem_available` estimate available memory

`jpeg_open_backing_store` create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:

1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most

cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:

1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/structure.txt

No license file was found, but licenses were detected in source scan.

/*

* jcmaint.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2003-2012 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the main buffer controller for compression.

* The main buffer lies between the pre-processor and the JPEG

* compressor proper; it holds downsampled data in the JPEG colorspace.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcmaint.c

No license file was found, but licenses were detected in source scan.

/*

* jidctint.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modification developed 2002-2016 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a slow-but-accurate integer implementation of the

* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine

* must also perform dequantization of the input coefficients.

*

* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT

* on each row (or vice versa, but it's more convenient to emit a row at

* a time). Direct algorithms are also available, but they are much more

* complex and seem not to be any faster when reduced to code.

*

* This implementation is based on an algorithm described in

* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT

* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,

* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.

* The primary algorithm described there uses 11 multiplies and 29 adds.

* We use their alternate method with 12 multiplies and 32 adds.

* The advantage of this method is that no data path contains more than one

* multiplication; this allows a very simple and accurate implementation in

* scaled fixed-point arithmetic, with a minimal number of shifts.

*

* We also provide IDCT routines with various output sample block sizes for

* direct resolution reduction or enlargement and for direct resolving the

* common 2x1 and 1x2 subsampling cases without additional resampling: NxN

* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.

*

* For N<8 we simply take the corresponding low-frequency coefficients of

* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block

* to yield the downscaled outputs.

* This can be seen as direct low-pass downsampling from the DCT domain

* point of view rather than the usual spatial domain point of view,

* yielding significant computational savings and results at least

* as good as common bilinear (averaging) spatial downsampling.

*

* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as

* lower frequencies and higher frequencies assumed to be zero.

* It turns out that the computational effort is similar to the 8x8 IDCT

* regarding the output size.

* Furthermore, the scaling and descaling is the same for all IDCT sizes.

*

* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jidctint.c

No license file was found, but licenses were detected in source scan.

/*

* jchuff.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2006-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains Huffman entropy encoding routines.

* Both sequential and progressive modes are supported in this single module.

*

* Much of the complexity here has to do with supporting output suspension.

* If the data destination module demands suspension, we want to be able to

* back up to the start of the current MCU. To do this, we copy state

* variables into local working storage, and update them back to the

* permanent JPEG objects only upon successful completion of an MCU.

*

* We do not support output suspension for the progressive JPEG mode, since

* the library currently does not allow multiple-scan files to be written

* with output suspension.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jchuff.c

No license file was found, but licenses were detected in source scan.

/*

* jmemsys.h

*

* Copyright (C) 1992-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This include file defines the interface between the system-independent

* and system-dependent portions of the JPEG memory manager. No other

* modules need include it. (The system-independent portion is jmemmgr.c;

* there are several different versions of the system-dependent portion.)

*

* This file works as-is for the system-dependent memory managers supplied

* in the IJG distribution. You may need to modify it if you write a

* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*

* jdsample.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2002-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains upsampling routines.

*

* Upsampling input data is counted in "row groups". A row group

* is defined to be $(v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)$

* sample rows of each component. Upsampling will normally produce

* $max_v_samp_factor$ pixel rows from each row group (but this could vary

* if the upsampler is applying a scale factor of its own).

*

* An excellent reference for image resampling is

* Digital Image Warping, George Wolberg, 1990.

* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdsample.c
No license file was found, but licenses were detected in source scan.

/*

* cdjpeg.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains common support routines used by the IJG application

* programs (cjpeg, djpeg, jpegtran).

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.c

No license file was found, but licenses were detected in source scan.

```
/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */
```

Found in path(s):

```
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.h
```

No license file was found, but licenses were detected in source scan.

```
/*
 * rdswitch.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2003-2015 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables file Read quantization tables from text file
 * -scans file Read scan script from text file
 * -quality N[,N,...] Set quality ratings
 * -qslots N[,N,...] Set component quantization table selectors
 * -sample HxV[,HxV,...] Set component sampling factors
 */
```

Found in path(s):

```
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdswitch.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jdmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
```

- * and with determining the number of passes and the work to be done in each
- * pass.
- */

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*

* jdinput.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2002-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains input control logic for the JPEG decompressor.

* These routines are concerned with controlling the decompressor's input

* processing (marker reading and coefficient decoding). The actual input

* reading is done in jdmarker.c, jdhuft.c, and jdarith.c.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdinput.c
No license file was found, but licenses were detected in source scan.

/*

* jmemname.c

*

* Copyright (C) 1992-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file provides a generic implementation of the system-dependent

* portion of the JPEG memory manager. This implementation assumes that

* you must explicitly construct a name for each temp file.

* Also, the problem of determining the amount of memory available

* is shoved onto the user.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemname.c
No license file was found, but licenses were detected in source scan.

/*

* jdcoefct.c

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* Modified 2002-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
*
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdcoefct.c

No license file was found, but licenses were detected in source scan.

/*

* rdbmp.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2009-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to read input images in Microsoft "BMP"

* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).

* Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or

* 4-bit (feeding such low-depth images into JPEG would be silly anyway).

* Also, we don't support RLE-compressed files.

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume input from

* an ordinary stdio stream. They further assume that reading begins

* at the start of the file; start_input may need work if the

* user interface has already read some data (e.g., to determine that

* the file is indeed BMP format).

*

* This code contributed by James Arthur Boucher.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdbmp.c

No license file was found, but licenses were detected in source scan.

/*

* jdcolor.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdcolor.c

No license file was found, but licenses were detected in source scan.

/*

* jmemmac.c

*

* Copyright (C) 1992-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* jmemmac.c provides an Apple Macintosh implementation of the system-

* dependent portion of the JPEG memory manager.

*

* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the

* JPEG_INTERNALS part of jconfig.h.

*

* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr

* instead of malloc and free. It accurately determines the amount of

* memory available by using CompactMem. Notice that if left to its

* own devices, this code can chew up all available space in the

* application's zone, with the exception of the rather small "slop"

* factor computed in jpeg_mem_available(). The application can ensure

* that more space is left over by reducing max_memory_to_use.

*

* Large images are swapped to disk using temporary files and System 7.0+'s

* temporary folder functionality.

*

* Note that jmemmac.c depends on two features of MacOS that were first

* introduced in System 7: FindFolder and the FSSpec-based calls.

* If your application uses jmemmac.c and is run under System 6 or earlier,

* and the jpeg library decides it needs a temporary file, it will abort,

* printing error messages about requiring System 7. (If no temporary files

* are created, it will run fine.)

*

* If you want to use jmemmac.c in an application that might be used with

* System 6 or earlier, then you should remove dependencies on FindFolder

* and the FSSpec calls. You will need to replace FindFolder with some

* other mechanism for finding a place to put temporary files, and you

* should replace the FSSpec calls with their HFS equivalents:


```
*
* FSpDelete -> HDelete
* FSpGetFInfo -> HGetFInfo
* FSpCreate -> HCreate
* FSpOpenDF -> HOpen *** Note: not HOpenDF ***
* FSMakeFSSpec -> (fill in spec by hand.)
*
* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gylid@in-touch.com).
*/
```

Found in path(s):

```
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemmac.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* wrppm.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2009-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
```

Found in path(s):

```
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrppm.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* jcarith.c
*
* Developed 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*/
```

* This file contains portable arithmetic entropy encoding routines for JPEG
* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/

Found in path(s):

*/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcarith.c
No license file was found, but licenses were detected in source scan.

/*

* jidctflt.c

*

* Copyright (C) 1994-1998, Thomas G. Lane.

* Modified 2010-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.

*

* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.

*

* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.

*

* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.

* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.

* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if

* we use floating point arithmetic.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jidctflt.c

No license file was found, but licenses were detected in source scan.

/*

* wrgif.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2015-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write output images in GIF format.

*

* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *

* this code has been modified to output "uncompressed GIF" files. *

* There is no trace of the LZW algorithm in this file. *

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*/

/*

* This code is loosely based on ppmtogif from the PBMPLUS distribution

* of Feb. 1991. That file contains the following copyright notice:

* Based on GIFENCOD by David Rowley <mgardi@watdsu.waterloo.edu>.

* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.

* Copyright (C) 1989 by Jef Poskanzer.

* Permission to use, copy, modify, and distribute this software and its

* documentation for any purpose and without fee is hereby granted, provided

* that the above copyright notice appear in all copies and that both that

* copyright notice and this permission notice appear in supporting

* documentation. This software is provided "as is" without express or

* implied warranty.

*

* We are also required to state that

* "The Graphics Interchange Format(c) is the Copyright property of

* CompuServe Incorporated. GIF(sm) is a Service Mark property of

* CompuServe Incorporated."

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrgif.c

No license file was found, but licenses were detected in source scan.

```
/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */
```

Found in path(s):

```
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdtarga.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jdhuft.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2006-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */
```

Found in path(s):

```
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdhuft.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2003-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
 */
```

Found in path(s):

```
*/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jfdctfst.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jquant2.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
```

* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jquant2.c

No license file was found, but licenses were detected in source scan.

/*

* jmemmgr.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2011-2012 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the JPEG system-independent memory management

* routines. This code is usable across a wide variety of machines; most

* of the system dependencies have been isolated in a separate file.

* The major functions provided here are:

* * pool-based allocation and freeing of memory;

* * policy decisions about how to divide available memory among the
* virtual arrays;

* * control logic for swapping virtual arrays between main memory and
* backing storage.

* The separate system-dependent file provides the actual backing-storage

* access code, and it contains the policy decision about how much total

* main memory to use.

* This file is system-dependent in the sense that some of its functions

* are unnecessary in some systems. For example, if there is enough virtual

* memory so that backing storage will never be used, much of the virtual

* array control logic could be removed. (Of course, if you have that much

* memory then you shouldn't care about a little bit of unused code...)

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemmgr.c

No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.

Try doing

```
./configure
```

```
make
```

```
make test
```

If that doesn't complain, do

```
make install
```

(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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Hints for specific systems

BEFORE YOU START

=====

Before installing the software you must unpack the distributed source code.

Since you are reading this file, you have probably already succeeded in this

task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE

=====

To configure the IJG code for your system, you need to create two files:

- * jconfig.h: contains values for system-dependent #define symbols.
- * Makefile: controls the compilation process.

(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:

- * On a Unix system, you can just run the "configure" script.
- * We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
- * If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script

If you are on a Unix machine, you can just type

```
./configure
```

and let the configure script construct appropriate configuration files.

If you're using "csh" on an old version of System V, you might need to type

```
sh configure
```

instead to prevent csh from trying to execute configure itself.

Expect configure to run for a few minutes, particularly on slower machines; it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

- * Configure will build both static and shared libraries, if possible.

If you want to build libjpeg only as a static library, say

```
./configure --disable-shared
```

If you want to build libjpeg only as a shared library, say

`./configure --disable-static`

Configure uses GNU libtool to take care of system-dependent shared library building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.

To force a particular compiler to be selected, use the CC option, for example

`./configure CC='cc'`

The same method can be used to include any unusual compiler switches.

For example, on HP-UX you probably want to say

`./configure CC='cc -Aa'`

to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.

You can override this by saying, for example,

`./configure CFLAGS='-O2'`

if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG

software's internal virtual memory mechanism. To do this, give the option

"--enable-maxmem=N" where N is the default maxmemory limit in megabytes.

This is discussed in more detail under "Selecting a memory manager", below.

You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manx jconfig.manx Amiga, Manx Aztec C

makefile.sas jconfig.sas Amiga, SAS C

makeproj.mac jconfig.mac Apple Macintosh, Metrowerks CodeWarrior

mak*jpeg.st jconfig.st Atari ST/STE/TT, Pure C or Turbo C

makefile.bcc jconfig.bcc MS-DOS or OS/2, Borland C

makefile.dj jconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)

makefile.mc6 jconfig.mc6 MS-DOS, Microsoft C (16-bit only)

makefile.wat jconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C
makefile.vc jconfig.vc Windows, MS Visual C++
makefile.vs jconfig.vc Windows, MS Visual C++ 6 Developer Studio
make*.vc6
makefile.vs jconfig.vc Windows, Visual Studio 2017 (v15)
make*.v15
makefile.b32 jconfig.vc Windows, Borland C++ 32-bit (bcc32)
makefile.mms jconfig.vms Digital VMS, with MMS software
makefile.vms jconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

makefile.ansi: if your C compiler supports function prototypes

makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and

link them into executable files `cjpeg`, `djpeg`, `jpegtran`, `rdjpgcom`, and `wrjpgcom`. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file `libjpeg` first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; `makefile.vms` is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style

These programs can use a Unix-like command line style which supports redirection and piping, like this:

```
cjpeg inputfile >outputfile
```

```
cjpeg <inputfile >outputfile
```

```
source program | cjpeg >outputfile
```

The simpler "two file" command line style is just

```
cjpeg inputfile outputfile
```

You may prefer the two-file style, particularly if you don't have pipes.

You **MUST** use two-file style on any system that doesn't cope well with binary data fed through `stdin/stdout`; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard `fdopen()` library routine or a Microsoft-compatible `setmode()` routine, you can safely use the Unix command line style, by defining `USE_FDOPEN` or `USE_SETMODE` respectively.)

To use the two-file style, make `jconfig.h` say `#define TWO_FILE_COMMANDLINE`.

Selecting a memory manager

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

* `jmemansi.c` This version uses the ANSI-standard library routine `tmpfile()`, which not all non-ANSI systems have. On some systems `tmpfile()` may put the temporary file in a non-optimal location; if you don't like what it does, use `jmemname.c`.

* `jmemname.c` This version creates named temporary files. For anything

except a Unix machine, you'll need to configure the `select_file_name()` routine appropriately; see the comments near the head of `jmemname.c`. If you use this version, define `NEED_SIGNAL_CATCHER` in `jconfig.h` to make sure the temp files are removed if the program is aborted.

* `jmemnobs.c` (That stands for No Backing Store :-).) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* `jmemdos.c` This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define `USE MSDOS MEMMGR` in `jconfig.h`, and include the assembly file `jmemdosa.asm` in the programs. The supplied makefiles and `jconfig` files for 16-bit MS-DOS compilers already do both.

* `jmemmac.c` Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the `SYSDEPMEM` variable in your makefile to equal the corresponding object file name (for example, `jmemansi.o` or `jmemansi.obj` for `jmemansi.c`).

If you have plenty of (real or virtual) main memory, just use `jmemnobs.c`. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try `jmemansi.c` first. If that doesn't compile, you'll have to use `jmemname.c`; be sure to adjust `select_file_name()` for local conditions. You may also need to change `unlink()` to `remove()` in `close_backing_store()`.

Except with `jmemnobs.c` or `jmemmac.c`, you need to adjust the `DEFAULT_MAX_MEM` setting to a reasonable value for your system (either by adding a `#define` for `DEFAULT_MAX_MEM` to `jconfig.h`, or by adding a `-D` switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for `cjpeg` or `djpeg` are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set `DEFAULT_MAX_MEM` to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by `jmemdos.c`.)

BUILDING THE SOFTWARE

=====

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jininclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE

=====

As a quick test of functionality we've included a small sample image in several forms:

testorig.jpg Starting point for the djpeg tests.

testing.ppm The output of djpeg testorig.jpg

testing.bmp The output of djpeg -bmp -colors 256 testorig.jpg

testing.jpg The output of cjpeg testing.ppm

testprog.jpg Progressive-mode equivalent of testorig.jpg.

testingp.jpg The output of cjpeg -progressive -optimize testing.ppm

(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testing* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjpeg by hand and compare the output files to testing* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t.

Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testing.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE

=====

Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say
make install
to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying
make -n install
to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files `jpeglib.h` `jerror.h` `jconfig.h` `jmorecfg.h` into your include-file directory, and put the library file `libjpeg.a` (extension may vary depending on system) wherever library files go. If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say

```
make install-lib
```

OPTIONAL STUFF

=====

Progress monitor:

If you like, you can `#define PROGRESS_REPORT` (in `jconfig.h`) to enable display of percent-done progress reports. The routine provided in `cdjpeg.c` merely prints percentages to `stderr`, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:

1. `#define RLE_SUPPORTED` in `jconfig.h`.
2. Add a `-I` option to `CFLAGS` in the Makefile for the directory containing the URT `.h` files (typically the "include" subdirectory of the URT distribution).
3. Add `-L... -lrle` to `LDLIBS` in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:

1. In `jmorecfg.h`, define `BITS_IN_JSAMPLE` as 9, 10, 11, or 12 rather than 8.
2. In `jconfig.h`, undefine `BMP_SUPPORTED`, `RLE_SUPPORTED`, and `TARGA_SUPPORTED`, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)

3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:

The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to

remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION

=====

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step.

Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the `INLINE` macro in `jmorecfg.h` is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., `-finline-functions` for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS

=====

We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if `configure` or `ckconfig.c` is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.) After renaming the files according to Acorn conventions, take a copy of `makefile.ansi`, change all occurrences of `'libjpeg.a'` to `'libjpeg.o'` and change these definitions as indicated:

```
CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o
```

Also add a new line `'c.o; $(cc) $< $(cflags) -c -o $@'`. Remove the lines `'$(RM) libjpeg.o'` and `'$(AR2) libjpeg.o'` and the `'jconfig.h'` dependency section.

Copy `jconfig.txt` to `jconfig.h`. Edit `jconfig.h` to define `TWO_FILE_COMMANDLINE` and `CHAR_IS_UNSIGNED`.

Run the makefile using `!AMU` not `!Make`. If you want to use the `'clean'` and `'test'` makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use `jmemname.c` as the memory manager, with temporary files being created on the device named by "JPEGTMP:".

Atari ST/STE/TT:

Copy the project files `makcjpeg.st`, `makdjpeg.st`, `maktjpeg.st`, and `makljpeg.st` to `cjpeg.prj`, `djpeg.prj`, `jpegtran.prj`, and `libjpeg.prj` respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that `libjpeg.prj` selects `jmemansi.c` as the recommended memory manager. You'll probably want to adjust the `DEFAULT_MAX_MEM` setting --- you want it to be a couple hundred K less than your normal free memory. Put `#define DEFAULT_MAX_MEM nnnn` into `jconfig.h` to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace `pcfltlib.lib` with `pc881lib.lib` in `cjpeg.prj` and `djpeg.prj`. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining `DCT_FLOAT_SUPPORTED` in `jmorecfg.h` (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete `pcfltlib.lib` from the project files.

Note that you must make `libjpeg.lib` before making `cjpeg.ttp`, `djpeg.ttp`, or `jpegtran.ttp`. You'll have to perform the self-test by hand.

We haven't bothered to include project files for `rdjpgcom` and `wrjpgcom`. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the `default.prj` project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with `tmpfile()` not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in `cjpeg/djpeg/jpegtran`, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading

```
"#pragma novector" just before the loop
for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;
```

in `fix_huff_tbl` (in V5beta1, line 204 of `jchuff.c` and line 176 of `jd Huff.c`).

[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

```
./configure CC='cc -Aa'
```

(or `-Ae` if you prefer). If configuring by hand, use `makefile.ansi` and add `"-Aa"` to the `CFLAGS` line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use `makefile.unix` (and do NOT add `-Aa`); or just run `configure` without the `CC` option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use `makefile.unix`, or run `configure` without the `CC` option.

Macintosh, generic comments:

The supplied user-interface files (`cjpeg.c`, `djpeg.c`, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the `ccommand()` library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of `cjpeg/djpeg` you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.

The CodeWarrior source code is available from <http://www.pobox.com/~jsam>.

2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C.

Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file `/info-mac/dev/src/jpeg-convert-c.hqx`.

`jmemmac.c` is the recommended memory manager back end for Macintosh. It uses `NewPtr/DisposePtr` instead of `malloc/free`, and has a Mac-specific implementation of `jpeg_mem_available()`. It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in `jmemmac.c` if you need to run it on System 6.) NOTE that `USE_MAC_MEMMGR` must be defined in `jconfig.h` to use `jmemmac.c`.

You can also use `jmemnobs.c`, if you don't care about handling images larger than available memory. If you use any memory manager back end other than `jmemmac.c`, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of `malloc/free`. (For instance, `free()` may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because `jmemmgr.c` already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining `USE_CCOMMAND`. You'll also need to define `TWO_FILE_COMMANDLINE` to avoid `stdin/stdout`. This means that when using the `cjpeg/djpeg` programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps `USE_FDOPEN` or `USE_SETMODE` would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. `jmemmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `#define ALIGN_TYPE long` to `jconfig.h` to eliminate the complaint.

The supplied configuration file `jconfig.mac` can be used for your `jconfig.h`; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script `makeproj.mac` to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows.

You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define `USE_CCOMMAND` in `jconfig.h` so that the `ccommand()` routine is called. You must also define `TWO_FILE_COMMANDLINE` because `stdin/stdout` don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. `jmemmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `#define ALIGN_TYPE long` to `jconfig.h` to eliminate the complaint.

`jconfig.mac` should work as a `jconfig.h` configuration file for Think C, but the `makeproj.mac` AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's `cc` version 1.31 has a rather nasty optimization bug. Don't use `-O` if you have that compiler version. (Use `"cc -V"` to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile `cjpeg` or `djpeg` by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that `NEED_FAR_POINTERS` is defined in `jconfig.h` if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and `jconfig` files for Borland and Microsoft C compile in medium model and define `NEED_FAR_POINTERS`.)

The DOS-specific memory manager, `jmemdos.c`, should be used if possible. It needs some assembly-code routines which are in `jmemdosa.asm`; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for `jmemdosa` by FTP from `ftp.uu.net:/graphics/jpeg/jdosaobj.zip`. (DOS-oriented distributions of the IJG source code often include these object files.)

When using `jmemdos.c`, `jconfig.h` must define `USE_MSDOS_MEMMGR` and must set `MAX_ALLOC_CHUNK` to less than 64K (65520L is a typical value). If your C library's far-heap `malloc()` can't allocate blocks that large, reduce

MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use `jmemdos.c` for some reason --- for example, because you don't have an assembler to assemble `jmemdosa.asm` --- you'll have to fall back to `jmemansi.c` or `jmemname.c`. You'll probably still need to set `MAX_ALLOC_CHUNK` in `jconfig.h`, because most DOS C libraries won't `malloc()` more than 64K at a time. IMPORTANT: if you use `jmemansi.c` or `jmemname.c`, you will have to compile in a large-data memory model in order to get the right `stdio` library. Too bad.

`wrjpgcom` needs to be compiled in large model, because it `malloc()`s a 64KB work area to hold the comment text. If your C library's `malloc` can't handle that, reduce `MAX_COM_LENGTH` as necessary in `wrjpgcom.c`.

Most MS-DOS compilers treat `stdin/stdout` as text files, so you must use two-file command line style. But if your compiler has either `fdopen()` or `setmode()`, you can use one-file style if you like. To do this, define `USE_SETMODE` or `USE_FDOPEN` so that `stdin/stdout` will be set to binary mode. (`USE_SETMODE` seems to work with more DOS compilers than `USE_FDOPEN`.) You should test that I/O through `stdin/stdout` produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use `stdin/stdout`.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define `NEED_FAR_POINTERS`, and do NOT use `jmemdos.c`. Use `jmemnobs.c` if the environment supplies adequate virtual memory, otherwise use `jmemansi.c` or `jmemname.c`.

You'll still need to be careful about binary I/O through `stdin/stdout`. See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine `TWO_FILE_COMMANDLINE`. `jconfig.bcc` already includes `#define USE_SETMODE` to make this work.

(fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "\$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

```
/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
```



```
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)
```

windows.h contains the declarations

```
#define far
#define FAR far
```

Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windows.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR" around the line "#define FAR" in jmorecfg.h.

(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:

1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line

```
fprintf(stderr, "%s\n", buffer);
```

(in output_message in jerror.c) with

```
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
```

It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put

`#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */`
into `jconfig.h` to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.) `jmemo.c` works without modification in large or flat memory models, but to use medium model, you need to modify its `jpeg_get_large` and `jpeg_free_large` routines to allocate far memory. In any case, you might like to replace its calls to `malloc` and `free` with direct calls on Windows memory allocation functions.

You may also want to modify `jdatasrc.c` and `jdatadst.c` to use Windows file operations rather than `fread/fwrite`. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the `RGB_xxx` macros in `jmorecfg.h` so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications `cjpeg/djpeg`, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So `jdatasrc.c` and `jdatadst.c` don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make `jdatasrc.c/jdatadst.c` part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros `GLOBAL()` and `EXTERN()` to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify `METHODDEF()` and `JMETHOD()` to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in `jmorecfg.h`. Typical definitions for a 16-bit DLL are:

```
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist) \
    type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type
```

Although not all the `GLOBAL` routines are actually intended to be called by

the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided `jconfig.bcc` should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define `NEED_FAR_POINTERS` and `MAX_ALLOC_CHUNK`). Beware that `makefile.bcc` will need alteration if you want to use it for Windows --- in particular, you should use `jmemnobs.c` not `jmemdos.c` under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile `jdmerge.c` in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable `range_limit` in `h2v1_merged_upsample()`, at the head of the block that handles odd image width (about line 268 in `v6_jdmerge.c`):

```
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
```

Pretty bizarre, especially since the very similar routine `h2v2_merged_upsample` doesn't trigger the bug.

Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:

```
-Ot -Og
-Ot -Op
-Ot -Om
```

So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

`jconfig.vc` should work OK with any Microsoft compiler for a 32-bit memory model. `makefile.vc` is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" { ... } around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the command prompt, change to the main directory and execute the command line
NMAKE /f makefile.vs setup-vc6
This will move jconfig.vc to jconfig.h and makefiles to project files.
(Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
(If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the Developer Command Prompt, change to the main directory and execute the command line
NMAKE /f makefile.vs setup-v15
This will move jconfig.vc to jconfig.h and makefiles to project files.

- (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
 - a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.
 - b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
 3. Open the solution file apps.sln, build the application projects.
 4. To perform the self-test, execute the command line
NMAKE /f makefile.vs test-build
 5. Move the application .exe files from `app`\Release to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.

If you are using configure, you can do this by saying

```
./configure RANLIB='ar -ts'
```

This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files.

This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/install.txt

No license file was found, but licenses were detected in source scan.

/*

* djpeg.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2009-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a command-line user interface for the JPEG decompressor.

* It should work on any system with Unix- or MS-DOS-style command lines.

*

* Two different command line styles are permitted, depending on the

* compile-time switch TWO_FILE_COMMANDLINE:

* djpeg [options] inputfile outputfile

* djpeg [options] [inputfile]

* In the second style, output is always to standard output, which you'd

* normally redirect to a file or pipe to some other program. Input is

* either from a named file or from standard input (typically redirected).

* The second style is convenient on Unix but is unhelpful on systems that

* don't support pipes. Also, you MUST use the first style if your system

* doesn't do binary I/O to stdin/stdout.

* To simplify script writing, the "-outfile" switch is provided. The syntax

* djpeg [options] -outfile outputfile inputfile

* works regardless of which command line style is used.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/djpeg.c

No license file was found, but licenses were detected in source scan.

/*

* jdatasrc.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2009-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains decompression data source routines for the case of

* reading JPEG data from memory or from a file (or any stdio stream).

* While these routines are sufficient for most applications,

* some will want to use a different source manager.

* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdatasrc.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

```
/*  
* Block comments in this style.  
*/
```

We indent statements in K&R style, e.g.,

```
if (test) {  
    then-part;  
} else {  
    else-part;  
}
```

with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., multi_word_name (not multiWordName). Preprocessor symbols and enum constants are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code

transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
```

which is used like this:

```
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jpp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process

multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.
2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.
3. Don't use global variables; anything that must be used in another module should be in the common data structures.
4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).
5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/coderules.txt

No license file was found, but licenses were detected in source scan.

/*

* jcomapi.c

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains application interface routines that are used for both
* compression and decompression.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcomapi.c

No license file was found, but licenses were detected in source scan.

/*

* jconfig.txt

*

* Copyright (C) 1991-1994, Thomas G. Lane.

* Modified 2009-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file documents the configuration options that are required to

* customize the JPEG software for a particular system.

*

* The actual configuration options for a particular installation are stored

* in jconfig.h. On many machines, jconfig.h can be generated automatically

* or copied from one of the "canned" jconfig files that we supply. But if

* you need to generate a jconfig.h file by hand, this file tells you how.

*

* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.

* EDIT A COPY NAMED JCONFIG.H.

*/

/*

* These symbols indicate the properties of your machine or compiler.

* #define the symbol if yes, #undef it if no.

*/

/* Does your compiler support function prototypes?

* (If not, you also need to use ansi2knr, see install.txt)

*/

#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?

* How about "unsigned short" ?

*/

#define HAVE_UNSIGNED_CHAR

#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.

* NOTE: be sure to define void such that "void *" represents the most general

* pointer type, e.g., that returned by malloc().

*/

/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.

*/

```

/* #define const */

/* Define this if an ordinary "char" type is unsigned.
 * If you're not sure, leaving it undefined will work at some cost in speed.
 * If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
 */
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
 */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
 */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
 * but does have a BSD-style <strings.h>.
 */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
 * ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
 * <sys/types.h> instead.
 */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
 * unless you are using a large-data memory model or 80386 flat-memory mode.
 * On less brain-damaged CPUs this symbol must not be defined.
 * (Defining this symbol causes large data structures to be referenced through
 * "far" pointers and to be allocated with a special version of malloc.)
 */
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
 * than the first 15 characters.
 */
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
 * unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
 * and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
 * define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
 * actually get "missing structure definition" warnings or errors while
 * compiling the JPEG code.
 */
#undef INCOMPLETE_TYPES_BROKEN

```

```

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */

```

```

#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
 */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

```

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jconfig.txt

No license file was found, but licenses were detected in source scan.

```

/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2015-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that inserts
 * user-supplied text as a COM (comment) marker in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

```

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrjpgcom.c

No license file was found, but licenses were detected in source scan.

/*

* rdcolmap.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file implements djpeg's "-map file" switch. It reads a source image

* and constructs a colormap to be supplied to the JPEG decompressor.

*

* Currently, these file formats are supported for the map file:

* GIF: the contents of the GIF's global colormap are used.

* PPM (either text or raw flavor): the entire file is read and

* each unique pixel value is entered in the map.

* Note that reading a large PPM file will be horrendously slow.

* Typically, a PPM-format map file should contain just one pixel

* of each desired color. Such a file can be extracted from an

* ordinary image PPM file with ppmtomap(1).

*

* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not

* currently implemented.

*/

/* Portions of this code are based on the PBMPLUS library, which is:

**

** Copyright (C) 1988 by Jef Poskanzer.

**

** Permission to use, copy, modify, and distribute this software and its

** documentation for any purpose and without fee is hereby granted, provided

** that the above copyright notice appear in all copies and that both that

** copyright notice and this permission notice appear in supporting

** documentation. This software is provided "as is" without express or

** implied warranty.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdcolmap.c

No license file was found, but licenses were detected in source scan.

/*

* jcrepct.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcprepct.c
No license file was found, but licenses were detected in source scan.

/*
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.

- * This may be useful as an example of the minimum logic needed to parse
- * JPEG markers.
- */

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdjpgcom.c

No license file was found, but licenses were detected in source scan.

/*

* jccoefct.c

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* Modified 2003-2011 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the coefficient buffer controller for compression.

* This controller is the top level of the JPEG compressor proper.

* The coefficient buffer lies between forward-DCT and entropy encoding steps.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jccoefct.c

No license file was found, but licenses were detected in source scan.

/*

* jdmarker.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2009-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to decode JPEG datastream markers.

* Most of the complexity arises from our desire to support input

* suspension: if not all of the data for a marker is available,

* we must exit back to the application. On resumption, we reprocess

* the marker.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmarker.c

No license file was found, but licenses were detected in source scan.

/*

* jquant1.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jquant1.c
No license file was found, but licenses were detected in source scan.

/*

* jccolor.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jccolor.c
No license file was found, but licenses were detected in source scan.

/*

* jdarith.c

*

* Developed 1997-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy decoding routines for JPEG
* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdarith.c
No license file was found, but licenses were detected in source scan.

/*

* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2015-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*

* jpegtran.c
*
* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*

* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009-2017 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software

* (but it is highly useful as a set of PPM image manipulation programs).

*

* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).

*/

/* Portions of this code are based on the PBMPLUS library, which is:

**

** Copyright (C) 1988 by Jef Poskanzer.

**

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** documentation for any purpose and without fee is hereby granted, provided
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** implied warranty.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdppm.c

No license file was found, but licenses were detected in source scan.

/*

* jaricom.c

*

* Developed 1997-2011 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains probability estimation tables for common use in

* arithmetic entropy encoding and decoding routines.

*

* This data represents Table D.3 in the JPEG spec (D.2 in the draft),

* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24

* in the JBIG spec, ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jaricom.c

No license file was found, but licenses were detected in source scan.

/*

* jutils.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2009-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jutils.c
No license file was found, but licenses were detected in source scan.

/*

* jmemnobs.c

*

* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*

* cderror.h

*

* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.

*/

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cderror.h

No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file `example.c` provides heavily commented skeleton code for calling the JPEG library. Also see `jpeglib.h` (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW

=====

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of

the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

- * Hierarchical storage
- * Lossless JPEG
- * DNL marker
- * Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage

The rough outline of a JPEG compression operation is:

```
Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
    jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object
```

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to `jpeg_write_scanlines()` from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call `jpeg_read_header()` to obtain image info
Set parameters for decompression
`jpeg_start_decompress(...);`
while (scan lines remain to be read)
 `jpeg_read_scanlines(...);`
`jpeg_finish_decompress(...);`
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to `jpeg_read_scanlines()`.

It is possible to abort an incomplete compression or decompression operation by calling `jpeg_abort()`; or, if you do not need to retain the JPEG object, simply release it by calling `jpeg_destroy()`.

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as `jpeg_destroy()` can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE

=====

Data formats

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed `jmcorefg.h`. (You can also change the RGB pixel layout, say to B,G,R order, by modifying `jmcorefg.h`. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by `BITS_IN_JSAMPLE` (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with `BITS_IN_JSAMPLE = 9 to 12`. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color

quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

```
image_width  Width of image, in pixels
image_height Height of image, in pixels
input_components  Number of color channels (samples per pixel)
in_color_space  Color space of source image
```

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or

JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling `jpeg_set_defaults()`; then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set `in_color_space` correctly before calling `jpeg_set_defaults()`, because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call `jpeg_start_compress()`. There's no harm in calling `jpeg_set_defaults()` more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```
cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */
```

4. `jpeg_start_compress(...)`;

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)

```
jpeg_write_scanlines(...);
```

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application `cjpeg`.

The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like `"while (cinfo.next_scanline < cinfo.image_height)"`.

Code for this step depends heavily on the way that you store the source data. `example.c` shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

`jpeg_write_scanlines()` returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

- * If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
- * If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal `stdio` destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of `next_scanline`.

6. jpeg_finish_compress(...);

After all the image data has been written, call `jpeg_finish_compress()` to complete the compression cycle. This step is **ESSENTIAL** to ensure that the last bufferload of data is written to the data destination.

`jpeg_finish_compress()` also releases working memory associated with the JPEG object.

Typical code:

```
jpeg_finish_compress(&cinfo);
```

If using the `stdio` destination manager, don't forget to close the output `stdio` stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, `jpeg_finish_compress()` will perform the additional passes using data buffered by the first pass. In this case `jpeg_finish_compress()` may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call `jpeg_finish_compress()` before writing the necessary total number of scanlines. If you wish to abort compression, call `jpeg_abort()` as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call `jpeg_set_defaults()` to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling `jpeg_destroy_compress()`. This will free all subsidiary memory (regardless of the previous state of the object). Or you can call `jpeg_destroy()`, which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, `jpeg_destroy()` should be passed a `j_common_ptr`.)

If you allocated the `jpeg_compress_struct` structure from `malloc()`, freeing

it is your responsibility --- `jpeg_destroy()` won't. Ditto for the error handler structure.

Typical code:

```
jpeg_destroy_compress(&cinfo);
```

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call `jpeg_destroy_compress()` or `jpeg_destroy()` to release memory. This is legitimate at any point after calling `jpeg_create_compress()` --- in fact, it's safe even if `jpeg_create_compress()` fails.

* If you want to re-use the JPEG object, call `jpeg_abort_compress()`, or call `jpeg_abort()` which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. `jpeg_abort()` is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call `term_destination()`. (See "Compressed data handling", below, for more about that.)

`jpeg_destroy()` and `jpeg_abort()` are the only safe calls to make on a JPEG object that has reported an error by calling `error_exit` (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct `jpeg_decompress_struct`" and you call `jpeg_create_decompress()`. Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;  
struct jpeg_error_mgr jerr;
```

```
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```


This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

- * A suspending data source is used --- in that case `jpeg_read_header()` may return before it has read all the header data. See "I/O suspension", below. The normal `stdio` source manager will NOT cause this to happen.
- * Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call `jpeg_destroy()` when you are done with the JPEG object, or call `jpeg_abort()` to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

`jpeg_read_header()` sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to `jpeg_read_header()`. If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. `jpeg_start_decompress(...)`;

Once the parameter values are satisfactory, call `jpeg_start_decompress()` to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

```
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

`output_width` image width and height, as scaled
`output_height`
`out_color_components` # of color components in `out_color_space`
`output_components` # of color components returned per pixel
`colormap` the selected colormap, if any
`actual_number_of_colors` number of entries in colormap

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as `djpeg` does), then the manager's protocol requires that you request large buffers *before* calling `jpeg_start_decompress()`. This is a little tricky since the `output_XXX` fields are not normally valid then. You can make them valid by calling `jpeg_calc_output_dimensions()` after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)

```
jpeg_read_scanlines(...);
```

Now you can read the decompressed image data by calling `jpeg_read_scanlines()` one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); `jpeg_read_scanlines()` will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual

array mechanism to invert the data efficiently. Examples of this can be found in the sample application `djpeg`.

The library maintains a count of the number of scanlines returned so far in the `output_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like `"while (cinfo.output_scanline < cinfo.output_height)"`. (Note that the test should NOT be against `image_height`, unless you never use scaling. The `image_height` field is the height of the original unscaled image.) The return value always equals the change in the value of `output_scanline`.

If you don't use a suspending data source, it is safe to assume that `jpeg_read_scanlines()` reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that `jpeg_read_scanlines()` fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls `jpeg_read_scanlines()` repeatedly until the whole image has been read.

7. `jpeg_finish_decompress(...)`;

After all the image data has been read, call `jpeg_finish_decompress()` to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

```
jpeg_finish_decompress(&cinfo);
```

If using the `stdio` source manager, don't forget to close the source `stdio` stream if necessary.

It is an error to call `jpeg_finish_decompress()` before reading the correct total number of scanlines. If you wish to abort decompression, call `jpeg_abort()` as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling

jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

```
jpeg_destroy_decompress(&cinfo);
```

9. Aborting.

You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is **not** guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now,

however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the `jmemdos.c` memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See `cjpeg.c` or `djpeg.c` for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use `jmemnobs.c` (or another memory manager of your own devising). More info about the minimum system library requirements may be found in `jininclude.h`.

ADVANCED FEATURES

=====

Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call `jpeg_set_defaults()` first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling `cinfo` fields directly.

The helper routines are:

`jpeg_set_defaults (j_compress_ptr cinfo)`

This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field `in_color_space`, which must already be set in `cinfo`). Many applications will only need to use this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`

Sets the JPEG file's colorspace (field `jpeg_color_space`) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this

routine; if you want to twiddle individual parameters you should call `jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace (j_compress_ptr cinfo)`

Selects an appropriate JPEG colorspace based on `cinfo->in_color_space`, and calls `jpeg_set_colorspace()`. This is actually a subroutine of `jpeg_set_defaults()`. It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`

Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the `force_baseline` parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when `force_baseline` is FALSE, but other decoders may not be.

`jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)`

Same as `jpeg_set_quality()` except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus `scale_factor = 100` reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. `force_baseline` again constrains the computed table entries to 1..255.

`int jpeg_quality_scaling (int quality)`

Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

`jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)`

Set default quantization tables with linear `q_scale_factor[]` values (see below).

`jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl, const unsigned int *basic_table, int scale_factor, boolean force_baseline)`

Allows an arbitrary quantization table to be created. `which_tbl` indicates which table slot to fill. `basic_table` points to an array of 64 unsigned ints given in normal array order. These values are multiplied by `scale_factor/100` and then clamped to the range 1..65535 (or to 1..255 if `force_baseline` is TRUE).

CAUTION: prior to library version 6a, `jpeg_add_quant_table` expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like `"#if JPEG_LIB_VERSION >= 61"` is the right test.

`jpeg_simple_progression (j_compress_ptr cinfo)`

Generates a default scan script for writing a progressive-JPEG file.

This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean `arith_code`

If TRUE, use arithmetic coding.

If FALSE, use Huffman coding.

int `block_size`

Set DCT block size. All N from 1 to 16 are possible.

Default is 8 (baseline format).

Larger values produce higher compression, smaller values produce higher quality.

An exact DCT stage is possible with 1 or 2.

With the default quality of 75 and default Luminance qtable the DCT+Quantization stage is lossless for value 1.

Note that values other than 8 require a SmartScale capable decoder, introduced with IJG JPEG 8. Setting the `block_size` parameter for compression works with version 8c and later.

`J_DCT_METHOD` `dct_method`

Selects the algorithm used for the DCT step. Choices are:

`JDCT_ISLOW`: slow but accurate integer algorithm

`JDCT_IFAST`: faster, less accurate integer method

`JDCT_FLOAT`: floating-point method

`JDCT_DEFAULT`: default method (normally `JDCT_ISLOW`)

`JDCT_FASTEST`: fastest method (normally `JDCT_IFAST`)

The `FLOAT` method is very slightly more accurate than the `ISLOW` method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The `IFAST` method is

considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom

Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see block_size parameter above).

(The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space

int num_components

The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform

Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9).

Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.

Set this value for lossless RGB application *before* calling jpeg_set_colorspace(), because entropy table assignment in jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding

TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval

int restart_in_rows

To emit restart markers in the JPEG file, set one of these nonzero.

Set restart_interval to specify the exact interval in MCU blocks.

Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts).

One restart marker per MCU row is often a good choice.

NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs.

If you use restarts, you may want to use larger intervals in those

cases.

```
const jpeg_scan_info * scan_info
int num_scans
```

By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

```
boolean do_fancy_downsampling
```

If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate downsampling. Default is TRUE.

For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_upsampling value in decompression.

```
int smoothing_factor
```

If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

```
boolean write_JFIF_header
```

If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

```
UINT8 JFIF_major_version
```

```
UINT8 JFIF_minor_version
```

The version number to be written into the JFIF marker.

jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).

You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

```
UINT8 density_unit
```

```
UINT16 X_density
```

```
UINT16 Y_density
```

The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker

If TRUE, an Adobe APP14 marker is emitted. `jpeg_set_defaults()` and `jpeg_set_colorspace()` set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both `write_JFIF_header` and `write_Adobe_marker`. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]

Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; `jpeg_add_quant_table()` is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]

Linear quantization scaling factors (percentage, initialized 100) for use with `jpeg_default_qtables()`.

See `rdswitch.c` and `cjpeg.c` for an example of usage.

Note that the `q_scale_factor[]` fields are the "linear" scales, so you have to convert from user-defined ratings via `jpeg_quality_scaling()`.

Here is an example code which corresponds to `cjpeg -quality 90,70`:

```
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);
```

```
jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

```
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]

JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by `jpeg_set_defaults()`. If you need to allocate more table structures, `jpeg_alloc_huff_table()` may be used.

Note that optimal Huffman tables can be computed for an image

by setting `optimize_coding`, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by `jpeg_start_compress()`. You can also call `jpeg_calc_jpeg_dimensions()` to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION `jpeg_width` Actual dimensions of output image.
JDIMENSION `jpeg_height`

Per-component parameters are stored in the struct `cinfo.comp_info[i]` for component number `i`. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large `comp_info[]` array is allocated by `jpeg_set_defaults()`; if you choose not to use that routine, it's up to you to allocate the array.

int `component_id`

The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int `h_samp_factor`

int `v_samp_factor`

Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int `quant_tbl_no`

Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int `dc_tbl_no`

int `ac_tbl_no`

DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int `component_index`

Must equal the component's index in `comp_info[]`. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by `jpeg_read_header()` and may be useful to the application in choosing decompression parameters:

JDIMENSION `image_width` Width and height of image
JDIMENSION `image_height`
int `num_components` Number of color components
J_COLOR_SPACE `jpeg_color_space` Colorspace of image
boolean `saw_JFIF_marker` TRUE if a JFIF APP0 marker was seen
UINT8 `JFIF_major_version` Version information from JFIF marker
UINT8 `JFIF_minor_version`
UINT8 `density_unit` Resolution data from JFIF marker
UINT16 `X_density`
UINT16 `Y_density`
boolean `saw_Adobe_marker` TRUE if an Adobe APP14 marker was seen
UINT8 `Adobe_transform` Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE `out_color_space`
Output color space. `jpeg_read_header()` sets an appropriate default based on `jpeg_color_space`; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to `JCS_GRAYSCALE` to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not

be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend `jpegcolor.c` if you want an unusual conversion.

`unsigned int scale_num, scale_denom`

Scale the image by the fraction `scale_num/scale_denom`. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by `jpeg_read_header()` with the source DCT size. For baseline JPEG this is 8/8. If you change only the `scale_num` value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to $M/8$ scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

`boolean quantize_colors`

If set `TRUE`, colormapped output will be delivered. Default is `FALSE`, meaning that full-color output will be delivered.

The next three parameters are relevant only if `quantize_colors` is `TRUE`.

`int desired_number_of_colors`

Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

`boolean two_pass_quantize`

If `TRUE`, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is `TRUE`. Ignored when the application supplies its own color map.

`J_DITHER_MODE dither_mode`

Selects color dithering method. Supported values are:

`JDITHER_NONE` no dithering: fast, very low quality

`JDITHER_ORDERED` ordered dither: moderate speed and quality

`JDITHER_FS` Floyd-Steinberg dither: slow, high quality

Default is `JDITHER_FS`. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when `two_pass_quantize` is `TRUE` or when you supply an external color map, you'll get F-S dithering.)

When `quantize_colors` is `TRUE`, the target color map is described by the next two fields. `colormap` is set to `NULL` by `jpeg_read_header()`. The application can supply a color map by setting `colormap` non-`NULL` and setting

actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap

The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.

CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress().

Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors

The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method

Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling

If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate upsampling. Default is TRUE.

For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing

If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without.

In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant

boolean enable_external_quant

boolean enable_2pass_quant

These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions()

to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers **before** `jpeg_start_decompress()`.

JDIMENSION `output_width` Actual dimensions of output image.

JDIMENSION `output_height`

int `out_color_components` Number of color components in `out_color_space`.

int `output_components` Number of color components returned.

int `rec_outbuf_height` Recommended height of scanline buffer.

When quantizing colors, `output_components` is 1, indicating a single color map index per pixel. Otherwise it equals `out_color_components`. The output arrays are required to be `output_width * output_components` JSAMPLEs wide.

`rec_outbuf_height` is the recommended minimum height (in scanlines) of the buffer passed to `jpeg_read_scanlines()`. If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, `rec_outbuf_height` is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4).

If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring `rec_outbuf_height` so as to avoid data copying.

(An output buffer larger than `rec_outbuf_height` lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB \Leftrightarrow YCbCr and CMYK \Leftrightarrow YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field `in_color_space`. This is transformed to the JPEG file's color space given by `jpeg_color_space`. `jpeg_set_defaults()` chooses a reasonable JPEG color

space depending on `in_color_space`, but you can override this by calling `jpeg_set_colorspace()`. Of course you must select a supported transformation. `jpegcolor.c` currently supports the following transformations:

`RGB => YCbCr`

`RGB => GRAYSCALE`

`RGB => BG_YCC`

`YCbCr => GRAYSCALE`

`YCbCr => BG_YCC`

`CMYK => YCCK`

plus the null transforms: `GRAYSCALE => GRAYSCALE`, `RGB => RGB`, `BG_RGB => BG_RGB`, `YCbCr => YCbCr`, `BG_YCC => BG_YCC`, `CMYK => CMYK`, `YCCK => YCCK`, and `UNKNOWN => UNKNOWN`.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards.

`jpeg_set_colorspace()` will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting `in_color_space` and `jpeg_color_space` to `JCS_YCbCr`; use `JCS_UNKNOWN`. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is `UNKNOWN`, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for `jpeg_set_colorspace()`, in `jcparam.c`, for details.

For decompression, the JPEG file's color space is given in `jpeg_color_space`, and this is transformed to the output color space `out_color_space`.

`jpeg_read_header`'s setting of `jpeg_color_space` can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override `jpeg_read_header`'s guess by setting `jpeg_color_space`. `jpeg_read_header` also selects a default output color space based on (its guess of) `jpeg_color_space`; set `out_color_space` to override this. Again, you must select a supported transformation. `jpegcolor.c` currently supports

`YCbCr => RGB`

`YCbCr => GRAYSCALE`

`BG_YCC => RGB`

`BG_YCC => GRAYSCALE`

`RGB => GRAYSCALE`

`GRAYSCALE => RGB`

`YCCK => CMYK`

as well as the null transforms. (Since `GRAYSCALE=>RGB` is provided, an application can force grayscale JPEGs to look like color JPEGs if it only

wants to handle one case.)

The two-pass color quantizer, `jquant2.c`, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that `jquant2.c` is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK \leftrightarrow YCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on `stderr`, followed by `exit()`. You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file `example.c` illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

- * Fatal errors: the library cannot continue.
- * Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
- * Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (`jerror.c`) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need.

This is accomplished by calling `jpeg_std_error()` as usual, but then overriding some of the method pointers in the `jpeg_error_mgr` struct, as illustrated by

example.c.

All of the error handling routines will receive a pointer to the JPEG object (a `j_common_ptr` which points to either a `jpeg_compress_struct` or a `jpeg_decompress_struct`; if you need to tell which, test the `is_decompressor` field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the `jpeg_error_mgr` struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see `example.c` for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch `client_data` at all.)

The individual methods that you might wish to override are:

`error_exit(j_common_ptr cinfo)`

Receives control for a fatal error. Information sufficient to generate the error message has been stored in `cinfo->err`; call `output_message` to display it. Control must NOT return to the caller; generally this routine will `exit()` or `longjmp()` somewhere. Typically you would override this routine to get rid of the `exit()` default behavior. Note that if you continue processing, you should clean up the JPEG object with `jpeg_abort()` or `jpeg_destroy()`.

`output_message(j_common_ptr cinfo)`

Actual output of any JPEG message. Override this to send messages somewhere other than `stderr`. Note that this method does not know how to generate a message, only where to send it.

`format_message(j_common_ptr cinfo, char * buffer)`

Constructs a readable error message string based on the error info stored in `cinfo->err`. This method is called by `output_message`. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

`emit_message(j_common_ptr cinfo, int msg_level)`

Decide whether or not to emit a warning or trace message; if so, calls `output_message`. The main reason for overriding this method would be to abort on warnings. `msg_level` is -1 for warnings, 0 and up for trace messages.

Only `error_exit()` and `emit_message()` are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field `err->jpeg_message_table`. The messages are numbered from 0 to `err->last_jpeg_message`, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See `jerror.h` for the default texts. **CAUTION:** this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer `err->addon_message_table` and the message numbers `err->first_addon_message` and `err->last_addon_message`. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications `cjpeg/djpeg` for an example of using addon messages (the addon messages are defined in `cderror.h`).

Actual invocation of the error handler is done via macros defined in `jerror.h`:

`ERREXITn(...)` for fatal errors

`WARNMSn(...)` for corrupt-data warnings

`TRACEMSn(...)` for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the `error_exit()` or `emit_message()` method.

The variants of each macro are for varying numbers of additional parameters.

The additional parameters are inserted into the generated message using standard `printf()` format codes.

See `jerror.h` and `jerror.c` for further details.

Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original

data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;    /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)

Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)

This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)

Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it

yourself.

You will also need code to create a `jpeg_destination_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_dest()` or `jpeg_mem_dest()` routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;      /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's `fill_input_buffer` method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

`init_source (j_decompress_ptr cinfo)`

Initialize source. This is called by `jpeg_read_header()` before any data is actually read. Unlike `init_destination()`, it may leave `bytes_in_buffer` set to 0 (in which case a `fill_input_buffer()` call will occur immediately).

`fill_input_buffer (j_decompress_ptr cinfo)`

This is called whenever `bytes_in_buffer` has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of `next_input_byte` and `bytes_in_buffer`), reset the pointer & count to the start of the buffer, and return `TRUE` indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. `bytes_in_buffer` **MUST** be set to a positive value if `TRUE` is returned. A `FALSE` return should only be used when I/O suspension is desired (this mode is discussed in the next section).

`skip_input_data (j_decompress_ptr cinfo, long num_bytes)`

Skip `num_bytes` worth of data. The buffer pointer and count should be advanced over `num_bytes` input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large

skips are uncommon. bytes_in_buffer may be zero on return.

A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)

This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)

Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine.

The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the `empty_output_buffer()` or `fill_input_buffer()` routine is a no-op, merely returning `FALSE` to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an `empty_output_buffer()` routine that returns `FALSE`; typically it will not do anything else. This will cause the compressor to return to the caller of `jpeg_write_scanlines()`, with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call `jpeg_write_scanlines()` again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although `empty_output_buffer()` is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of `next_output_byte/free_in_buffer`. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call `jpeg_write_scanlines()` unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

- * At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
- * When you call `jpeg_finish_compress()`, there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling `jpeg_finish_compress()`.

A more significant restriction is that `jpeg_finish_compress()` cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during `jpeg_finish_compress()`, which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a `fill_input_buffer()` routine that simply returns `FALSE` (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

- * `jpeg_read_header()`: will return `JPEG_SUSPENDED`.
- * `jpeg_start_decompress()`: will return `FALSE`, rather than its usual `TRUE`.
- * `jpeg_read_scanlines()`: will return the number of scanlines already completed (possibly 0).
- * `jpeg_finish_decompress()`: will return `FALSE`, rather than its usual `TRUE`.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of `jpeg_read_scanlines()`, increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When `fill_input_buffer()` is called, `next_input_byte/bytes_in_buffer` point to the current restart point, which is where the decompressor will backtrack to if `FALSE` is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The `skip_input_data()` source manager routine requires special care in a

suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a

pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the `scan_info` `cinfo` field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the `jpeg_simple_progression()` helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in `rdswitch.c`, so that you can read scan script files just like `cjpeg`'s.)

When `scan_info` is not `NULL`, the compression library will store DCT'd data into a buffer array as `jpeg_write_scanlines()` is called, and will emit all the requested scans during `jpeg_finish_compress()`. This implies that multiple-scan output cannot be created with a suspending data destination manager, since `jpeg_finish_compress()` does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during `jpeg_start_decompress()`, so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from `jpeg_start_decompress()`.

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output() /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output() /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()`

advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release the buffered image (or just use `jpeg_destroy_decompress()`).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine `jpeg_consume_input()`.

The return value is one of the following:

`JPEG_REACHED_SOS`: reached an SOS marker (the start of a new scan)
`JPEG_REACHED_EOI`: reached the EOI marker (end of image)
`JPEG_ROW_COMPLETED`: completed reading one MCU row of compressed data
`JPEG_SCAN_COMPLETED`: completed reading last MCU row of current scan
`JPEG_SUSPENDED`: suspended before completing any of the above
(`JPEG_SUSPENDED` can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return `JPEG_REACHED_EOI` without attempting to read more data.)

The library's output processing will automatically call `jpeg_consume_input()` whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to `jpeg_consume_input()`. But by adding calls to `jpeg_consume_input()`, you can absorb data in advance of what is being displayed. This has two benefits:

- * You can limit buildup of unprocessed data in your input buffer.
- * You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to `jpeg_consume_input()` with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to

call `jpeg_consume_input()` only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call `jpeg_consume_input()` from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass `cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`. The `input_scan_number` field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling `jpeg_start_output()`: call `jpeg_consume_input()` repeatedly until it returns `JPEG_SUSPENDED` or `JPEG_REACHED_EOI`.

The target scan number passed to `jpeg_start_output()` is saved in the `cinfo.output_scan_number` field. The library's output processing calls `jpeg_consume_input()` whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what `jpeg_start_decompress()` does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, `jpeg_consume_input()` will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan

number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as `jpeg_input_complete()` returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the `JPEG_REACHED_EOI` return code from `jpeg_consume_input()`, or equivalently by testing `jpeg_input_complete()`.) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call `jpeg_finish_output()` and then start a new pass with `jpeg_start_output()`.

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting

JPEG_REACHED_SOS returns and/or examining `cinfo.input_scan_number`. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call `jpeg_consume_input()` until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for `jpeg_start_output()`; but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, `jpeg_start_decompress()` never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

- * `jpeg_start_output()` performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
- * `jpeg_read_scanlines()`, as always, returns the number of scanlines that it was able to produce before suspending.
- * `jpeg_finish_output()` will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if `jpeg_consume_input()` has already reached the end of the file or a SOS marker beyond the target output scan.)
- * `jpeg_finish_decompress()` will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling `jpeg_input_complete()`).

`jpeg_start_output()`, `jpeg_finish_output()`, and `jpeg_finish_decompress()` all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after `jpeg_start_decompress()` is called:

- * `dct_method` can be changed before each call to `jpeg_start_output()`.

For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

* `dither_mode` can be changed before each call to `jpeg_start_output()`; of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial `max_memory_to_use` specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* `do_block_smoothing` can be changed before each call to `jpeg_start_output()`. This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display.

The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
Selected by `cinfo.two_pass_quantize = FALSE` and `cinfo.colormap = NULL`.
2. Single-pass quantization to an application-supplied colormap.
Selected by setting `cinfo.colormap` to point to the colormap (the value of `two_pass_quantize` is ignored); also set `cinfo.actual_number_of_colors`.
3. Two-pass quantization to a colormap chosen specifically for the image.
Selected by `cinfo.two_pass_quantize = TRUE` and `cinfo.colormap = NULL`. (This is the default setting selected by `jpeg_read_header`, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call `jpeg_start_decompress()`. (If we did not require this, the `max_memory_to_use` setting would be a complete fiction.)

You do this by setting one or more of these three `cinfo` fields to `TRUE`:

`enable_1pass_quant` Fixed color cube colormap
`enable_external_quant` Externally-supplied colormap
`enable_2pass_quant` Two-pass custom colormap

All three are initialized `FALSE` by `jpeg_read_header()`. But `jpeg_start_decompress()` automatically sets `TRUE` the one selected by the

current `two_pass_quantize` and `colormap` settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at `jpeg_start_decompress()` time, you can change to any enabled quantization method by setting `two_pass_quantize` and `colormap` properly just before calling `jpeg_start_output()`. The following special rules apply:

1. You must explicitly set `cinfo.colormap` to `NULL` when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call `jpeg_new_colormap()` after setting `cinfo.colormap`.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because `cinfo.colormap` will always be non-`NULL` after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during `jpeg_start_output()`, not during `jpeg_start_decompress()`.

When using two-pass quantization, `jpeg_start_output()` makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, `jpeg_start_output()` will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a `FALSE` return from `jpeg_start_output()` under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which `jpeg_start_output()` will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling `jpeg_has_multiple_scans()`, which will return a correct result at any time after `jpeg_read_header()` completes.

It is also worth noting that when you use `jpeg_consume_input()` to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager `jmemnobs.c` if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that `max_memory_to_use` is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use `jpeg_consume_input()` for all input processing, including reading the initial markers; that is, you may wish to call `jpeg_consume_input()` instead of `jpeg_read_header()` during startup. This works, but note that you must check for `JPEG_REACHED_SOS` and `JPEG_REACHED_EOI` return codes as the equivalent of `jpeg_read_header's` codes. Once the first SOS marker has been reached, you must call `jpeg_start_decompress()` before `jpeg_consume_input()` will consume more input; it'll just keep returning `JPEG_REACHED_SOS` until you do. If you read a tables-only file this way, `jpeg_consume_input()` will return `JPEG_REACHED_EOI` without ever returning `JPEG_REACHED_SOS`; be sure to check for this case. If this happens, the decompressor will not read any more input until you call `jpeg_abort()` to reset it. It is OK to call `jpeg_consume_input()` even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return `JPEG_SUSPENDED`.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

- * "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
- * "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
- * "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

```
create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);
```

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the `jpeg_start_compress()` ... `jpeg_finish_compress()` sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set `optimize_coding = TRUE` when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See `jpeg_copy_critical_parameters()` for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
```

```

    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
    huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
    for (i = 1; i <= 16; i++) {
        /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
        huff_ptr->bits[i] = counts[i];
    }
    for (i = 0; i < 256; i++) {
        /* symbols[] is the list of Huffman symbols, in code-length order */
        huff_ptr->huffval[i] = symbols[i];
    }

```

(Note that trying to set `cinfo.quant_tbl_ptrs[n]` to point directly at a constant `JQUANT_TBL` object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The `jpeg_read_header()` call is sufficient to read a tables-only file. You must pass a second parameter of `FALSE` to indicate that you do not require an image to be present. Thus, the typical scenario is

```

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

```

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass `FALSE` and check the return value from `jpeg_read_header()`: it will be `JPEG_HEADER_OK` if an image was found, `JPEG_HEADER_TABLES_ONLY` if only tables were found. (A third return value, `JPEG_SUSPENDED`, is possible when using a suspending data source manager.) Note that `jpeg_read_header()` will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in `jpeg_start_decompress()`.

It is possible to read a series of images from a single source file by repeating the `jpeg_read_header() ... jpeg_finish_decompress()` sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the

start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at `term_destination()` time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing `FALSE` to `jpeg_start_compress()`.

Special markers

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling `jpeg_write_marker()` after `jpeg_start_compress()` and before the first call to `jpeg_write_scanlines()`. When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, `jpeg_write_marker` will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by `comment_text`:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call `jpeg_write_m_header()` followed by multiple calls to `jpeg_write_m_byte()`. If you do it this way, it's your responsibility to call `jpeg_write_m_byte()` exactly the number of times given in the length parameter to `jpeg_write_m_header()`. (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set `cinfo.JFIF_minor_version = 2` so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling `jpeg_read_header()`, because the markers of interest will typically be near the head of the file and so will be scanned by `jpeg_read_header`. Once you've established a marker handling

method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call `jpeg_save_markers(cinfo, marker_code, length_limit)` where `marker_code` is the marker type to save, `JPEG_COM` or `JPEG_APP0+n`. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to `0xFFFF`; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After `jpeg_read_header()` completes, you can examine the special markers by following the `cinfo->marker_list` pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed `length_limit` for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which `jpeg_read_header` stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing `jpeg_read_header`, to ensure that the `max_memory_to_use` setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call `jpeg_finish_decompress` or `jpeg_abort`, at which point the memory is freed and the list is set to empty. (`jpeg_destroy` also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by `malloc()` limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling `jpeg_set_marker_processor()`. A marker processor routine must have the signature

```
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in `cinfo->unread_marker`. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return `TRUE` to indicate success. (`FALSE` should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in `jdmarker.c` for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling `jpeg_save_markers()`; that method doesn't interfere with the library's own processing of these markers.)

`jpeg_set_marker_processor()` and `jpeg_save_markers()` are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in `djpeg.c`. Also, see `jpegtran.c` for an example of using `jpeg_save_markers`.

Raw (downsampled) image data

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set `jpeg_color_space = in_color_space` (or `jpeg_color_space = out_color_space` for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library,

namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of `block_size` valid samples, and there must be a multiple of `block_size` sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. Before calling `jpeg_start_compress()`, you must do the following:

- * Set `cinfo->raw_data_in` to TRUE. (It is set FALSE by `jpeg_set_defaults()`.) This notifies the library that you will be supplying raw data. Furthermore, set `cinfo->do_fancy_downsampling` to FALSE if you want to use real downsampled data. (It is set TRUE by `jpeg_set_defaults()`.)
- * Ensure `jpeg_color_space` is correct --- an explicit `jpeg_set_colorspace()` call is a good idea. Note that since color conversion is bypassed, `in_color_space` is ignored, except that `jpeg_set_defaults()` uses it to choose the default `jpeg_color_space` setting.
- * Ensure the sampling factors, `cinfo->comp_info[i].h_samp_factor` and `cinfo->comp_info[i].v_samp_factor`, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. The two routines work similarly except that `jpeg_write_raw_data` takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from `jpeg_write_raw_data` is measured in terms of the component with the largest `v_samp_factor`.

`jpeg_write_raw_data()` processes one MCU row per call, which is to say `v_samp_factor*block_size` sample rows of each component. The passed `num_lines` value must be at least `max_v_samp_factor*block_size`, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

```
cinfo->comp_info[i].width_in_blocks*block_size  samples per row
cinfo->comp_info[i].height_in_blocks*block_size rows in image
after jpeg_start_compress() has initialized those fields. If the valid data
is smaller than this, it must be padded appropriately. For some sampling
```

factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than `block_size` samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is

```
cinfo->comp_info[0].h_samp_factor = 2 for Y
```

```
cinfo->comp_info[0].v_samp_factor = 2
```

```
cinfo->comp_info[1].h_samp_factor = 1 for Cb
```

```
cinfo->comp_info[1].v_samp_factor = 1
```

```
cinfo->comp_info[2].h_samp_factor = 1 for Cr
```

```
cinfo->comp_info[2].v_samp_factor = 1
```

and suppose that the nominal image dimensions (`cinfo->image_width` and `cinfo->image_height`) are 101x101 pixels. Then `jpeg_start_compress()` will compute `downsampled_width = 101` and `width_in_blocks = 13` for Y, `downsampled_width = 51` and `width_in_blocks = 7` for Cb and Cr (and the same for the height fields). You must pad the Y data to at least $13*8 = 104$ columns and rows, the Cb/Cr data to at least $7*8 = 56$ columns and rows. The MCU height is `max_v_samp_factor = 2` DCT rows so you must pass at least 16 scanlines on each call to `jpeg_write_raw_data()`, which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of $7*16 = 112$ "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, `jpeg_write_raw_data()` will return 0.

In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing.

You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors.

The library will not convert to a different color space for you.

To obtain raw data output, set `cinfo->raw_data_out = TRUE` before

`jpeg_start_decompress()` (it is set `FALSE` by `jpeg_read_header()`). Be sure to verify that the color space and sampling factors are ones you can handle.

Furthermore, set `cinfo->do_fancy_upsampling = FALSE` if you want to get real downsampled data (it is set `TRUE` by `jpeg_read_header()`).

Then call `jpeg_read_raw_data()` in place of `jpeg_read_scanlines()`. The decompression process is otherwise the same as usual.

`jpeg_read_raw_data()` returns one MCU row per call, and thus you must pass a buffer of at least `max_v_samp_factor*block_size` scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with

compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, `jpeg_read_raw_data()` will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do `jpeg_read_header()` as usual. But instead of calling `jpeg_start_decompress()` and `jpeg_read_scanlines()`, call `jpeg_read_coefficients()`. This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's `access_virt_barray` method (see Memory management, below, and also read `structure.txt`'s discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to `jpeg_write_coefficients()`.

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the `width_in_blocks` and `height_in_blocks` fields of the component's `comp_info` entry.) This is also the data format expected by `jpeg_write_coefficients()`.

When you are done using the virtual arrays, call `jpeg_finish_decompress()` to release the array storage and return the decompression object to an idle state; or just call `jpeg_destroy()` if you don't need to reuse the object.

If you use a suspending data source, `jpeg_read_coefficients()` will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call `jpeg_read_coefficients()` to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call `jpeg_read_coefficients()` after the last `jpeg_finish_output()` call. The arrays will be available for your use until you call `jpeg_finish_decompress()`.

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by `jpeg_read_coefficients()`, or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, `jpeg_write_coefficients()` is substituted for `jpeg_start_compress()` and `jpeg_write_scanlines()`. Thus the sequence is

- * Create compression object
- * Set all compression parameters as necessary
- * Request virtual arrays if needed
- * `jpeg_write_coefficients()`
- * `jpeg_finish_compress()`
- * Destroy or re-use compression object

`jpeg_write_coefficients()` is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to `cinfo.num_components`.

The virtual arrays need only have been requested, not realized, before `jpeg_write_coefficients()` is called. A side-effect of `jpeg_write_coefficients()` is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling `jpeg_write_coefficients()`. The data is actually written out when you call `jpeg_finish_compress()`; `jpeg_write_coefficients()` only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using `jpeg_copy_critical_parameters()`. This routine initializes all the compression parameters to default values (like `jpeg_set_defaults()`), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting `jpeg_finish_decompress()`.

`jpeg_write_coefficients()` marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like `jpeg_start_compress(cinfo, TRUE)`). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call `jpeg_suppress_tables()`, or set the tables' individual `sent_table` flags, between calling `jpeg_write_coefficients()` and

jpeg_finish_compress().

Progress monitoring

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see `cjpeg.c` or `djpeg.c`.) Although you do get control back frequently during the data-transferring pass (the `jpeg_read_scanlines` or `jpeg_write_scanlines` loop), any additional passes will occur inside `jpeg_finish_compress` or `jpeg_start_decompress`; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of `jpeg_read_scanlines` or `jpeg_write_scanlines`, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct `jpeg_progress_mgr`, fill in its `progress_monitor` field with a pointer to your callback routine, and set `cinfo->progress` to point to the struct. The callback will be called whenever `cinfo->progress` is non-NULL. (This pointer is set to NULL by `jpeg_create_compress` or `jpeg_create_decompress`; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime `JPOOL_PERMANENT` will work nicely.) You can use the same callback routine for both compression and decompression.

The `jpeg_progress_mgr` struct contains four fields which are set by the library:

```
long pass_counter; /* work units completed in this pass */
long pass_limit; /* total number of work units in this pass */
int completed_passes; /* passes completed so far */
int total_passes; /* total number of passes expected */
```

During any one pass, `pass_counter` increases from 0 up to (not including) `pass_limit`; the step size is usually but not necessarily 1. The `pass_limit` value may change from one pass to another. The expected total number of passes is in `total_passes`, and the number of passes already completed is in `completed_passes`. Thus the fraction of work completed may be estimated as $\text{completed_passes} + (\text{pass_counter}/\text{pass_limit})$

total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.

Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.

There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high.

Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting `cinfo->mem->max_memory_to_use` after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before `jpeg_start_compress()` or `jpeg_start_decompress()` in order to have them counted against the max memory limit. Also keep in mind that space allocated with `alloc_small()` is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting `max_memory_to_use`.

If you use the `jmemname.c` or `jmemdos.c` memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with `jmemdos.c`, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either `jpeg_abort()` or `jpeg_destroy()` for any active JPEG objects. A handler is not needed with `jmemnobs.c`, and shouldn't be necessary with `jmemansi.c` or `jmemmac.c` either, since the C library is supposed to take care of deleting files made with `tmpfile()`.

Memory usage

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:

1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and

upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.

3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use `jemmnobs` and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the `MEM_STATS` code in `jmemmgr.c`.

Library compile-time options

A number of compile-time options are available by modifying `jmorecfg.h`.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining `BITS_IN_JSAMPLE` as 8, 9, 10, 11, or 12.

Note that a value larger than 8 causes `JSAMPLE` to be larger than a char, so it affects the surrounding application's image data.

The sample applications `cjpeg` and `djpeg` can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit `cjpeg` or `djpeg`. (`install.txt` has more information about that.)

Run-time selection and conversion of data precision are currently not

supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations

The JPEG library has been written to be extremely portable; the sample applications `cjpeg` and `djpeg` are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See `install.txt` for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in `jmorecfg.h`. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in `cjpeg/djpeg` do have ASCII dependencies in file-header manipulation; so does `cjpeg`'s `select_file_type()` routine.

The JPEG library does not rely heavily on the C library. In particular, C `stdio` is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (`cjpeg/djpeg` are more heavily dependent on `stdio`.) `malloc` and `free` are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining `NEED_SHORT_EXTERNAL_NAMES`.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

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```
/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2003-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values. However, that problem does not arise if
 * we use floating point arithmetic.
 */
```

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```
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```

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```
/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * Modified 2000-2009 by Guido Vollbeding.
```

* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

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/*

* wrbmp.c

*

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*

* This file contains routines to write output images in Microsoft "BMP"

* format (MS Windows 3.x and OS/2 1.x flavors).

* Either 8-bit colormapped or 24-bit full-color format can be written.

* No compression is supported.

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*

* This code contributed by James Arthur Boucher.

*/

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrbmp.c

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/*

* jinclude.h

*

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*

* This file exists to provide a single place to fix any problems with

* including the wrong system include files. (Common problems are taken

* care of by the standard jconfig symbols, but on really weird systems

* you may have to edit this file.)

*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

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/*
* jmemansi.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
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*
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that you have the ANSI-standard library routine tmpfile().
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):

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/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

Found in path(s):

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```
/*
 * transupp.h
 *
 * Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */
```

Found in path(s):

```
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/transupp.h
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```

```
/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
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 *
 * This file contains routines to read input images in GIF format.
 *
 * *****
 * NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
 * the ability to read GIF files has been removed from the IJG distribution. *
 * Sorry about that. *
 * *****
 *
 * We are required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
 */
```

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```
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```

```
/*
 * jerror.h
 *
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 * This file is part of the Independent JPEG Group's software.
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 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */
```

Found in path(s):

```
*/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jerror.h
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```

```
/*
 * jdapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */
```

Found in path(s):

```
*/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapistd.c
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```

```
/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2012-2015 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
```

```
*
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
*
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
*
* These routines are used by both the compression and decompression code.
*/
```

Found in path(s):

```
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```

```
/*
* jdapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
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*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/
```

Found in path(s):

```
*/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapimin.c
```

1.1452 jaxb-core 2.2.3

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1.1453 jersey-json 1.19.4

1.1454 node-commondir 1.0.1

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1.1455 libyaml 0.2.4

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1.1456 cglib-nodep 2.1_3

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 - * <http://www.jcraft.com/jzlib/>

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 - * <https://github.com/ning/compress>

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 - * <https://github.com/jpountz/lz4-java>

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 - * <https://github.com/jponge/lzma-java>

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 - * <https://github.com/luben/zstd-jni>

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 - * <https://github.com/takari/maven-wrapper>

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 - * <https://github.com/hyperxpro/Brotli4j>

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1.1459 postcss-color-rebeccapurple 4.0.1

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1.1460 hk2-locator 2.5.0-b32

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1.1462 css-tokenize 1.0.1

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1.1463 snake-yaml 1.28

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Manifest-Version: 1.0

Automatic-Module-Name: org.yaml.snakeyaml

Bnd-LastModified: 1613973356620

Build-Jdk: 11.0.10

Built-By: alex13

Bundle-Description: YAML 1.1 parser and emitter for Java

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: SnakeYAML

Bundle-SymbolicName: org.yaml.snakeyaml

Bundle-Version: 1.28.0

Created-By: Apache Maven Bundle Plugin

Export-Package: org.yaml.snakeyaml;version="1.28",org.yaml.snakeyaml.comments;version="1.28",org.yaml.snakeyaml.composer;version="1.28",org.yaml.snakeyaml.constructor;version="1.28",org.yaml.snakeyaml.emitter;version="1.28",org.yaml.snakeyaml.env;version="1.28",org.yaml.snakeyaml.error;version="1.28",org.yaml.snakeyaml.events;version="1.28",org.yaml.snakeyaml.extensions.compactnotation;version="1.28",org.yaml.snakeyaml.introspector;version="1.28",org.yaml.snakeyaml.nodes;version="1.28",org.yaml.snakeyaml.parser;version="1.28",org.yaml.snakeyaml.reader;version="1.28",org.yaml.snakeyaml.representer;version="1.28",org.yaml.snakeyaml.resolver;version="1.28",org.yaml.snakeyaml.scanner;version="1.28",org.yaml.snakeyaml.serializer;version="1.28",org.yaml.sn


```
akeyaml.tokens;version="1.28",org.yaml.snakeyaml.util;version="1.28"
Import-Package: org.yaml.snakeyaml;version="[1.28,2)",org.yaml.snakeya
ml.comments;version="[1.28,2)",org.yaml.snakeyaml.composer;version="[
1.28,2)",org.yaml.snakeyaml.emitter;version="[1.28,2)",org.yaml.snake
yaml.error;version="[1.28,2)",org.yaml.snakeyaml.events;version="[1.2
8,2)",org.yaml.snakeyaml.introspector;version="[1.28,2)",org.yaml.sna
keyaml.nodes;version="[1.28,2)",org.yaml.snakeyaml.parser;version="[1
.28,2)",org.yaml.snakeyaml.reader;version="[1.28,2)",org.yaml.snakeya
ml.resolver;version="[1.28,2)",org.yaml.snakeyaml.scanner;version="[1
.28,2)",org.yaml.snakeyaml.serializer;version="[1.28,2)",org.yaml.sna
keyaml.tokens;version="[1.28,2)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.5.0.201709291849
```

Found in path(s):

* /opt/cola/permits/1248307574_1640375818.14/0/snakeyaml-1-28-jar/META-INF/MANIFEST.MF

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Found in path(s):

* /opt/cola/permits/1248307574_1640375818.14/0/snakeyaml-1-28-jar/META-INF/maven/org.yaml/snakeyaml/pom.xml

1.1464 node-stack-trace 0.0.10

1.1464.1 Available under license :

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1.1465 jest-environment-node 25.5.0

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1.1466 entity-framework 5.0.4

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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%% winjs version 4.4.0 (<https://github.com/winjs/winjs>)

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WinJS

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18. freebroccolo/atom-language-swift (<https://github.com/freebroccolo/atom-language-swift>)
19. HTML 5.1 W3C Working Draft version 08 October 2015 (<http://www.w3.org/TR/2015/WD-html51-20151008/>)
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1.1483 nodejs-deprecate 1.1.2

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1.1484 file-uri-to-path 1.0.0

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1.1485 isstream 0.1.2

1.1486 nwsapi 2.2.0

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1.1487 @babel/helper-split-export-declaration

7.15.4

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1.1488 javax-el 3.0.0

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1.1496 eslint-plugin-promise 5.1.0

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1.1497 jest-util 25.5.0

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1.1498 commons-betwixt 0.8

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1.1500 jshttp-content-type 1.0.4

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1.1508 spdx-correct v3.1.1

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1.1512 source-list-map 2.0.1

1.1513 @discoveryjs/json-ext 0.5.5

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1.1514 commons-lang3 2.6

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1.1520 mime4j 11.0.16

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```

Found in path(s):

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-

jar/com/google/common/collect/MultimapBuilder.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-

jar/com/google/common/collect/ImmutableMapEntry.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-

jar/com/google/common/io/MoreFiles.java

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/*

* This method was rewritten in Java from an intermediate step of the Murmur hash function in

* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the

* following header:

*

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*/

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-

jar/com/google/common/collect/Hashing.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/AtomicLongMap.java
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*/

/**

* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.

*/

Found in path(s):

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/primitives/FloatsMethodsForWeb.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableEnumSet.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Functions.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/Files.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Objects.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/Flushables.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/LittleEndianDataOutputStream.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/EnumMultiset.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Predicate.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/FinalizablePhantomReference.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/eventbus/Subscribe.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/MultiInputStream.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/primitives/Primitives.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/FinalizableSoftReference.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Suppliers.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/eventbus/AsyncEventBus.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/ListenableFuture.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/package-info.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/LineReader.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Interners.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/package-info.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/CountingInputStream.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/eventbus/DeadEvent.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/FinalizableWeakReference.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/Resources.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/AbstractIterator.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Charsets.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/LittleEndianDataInputStream.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/Closeables.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Supplier.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Function.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Predicates.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/CompactLinkedHashMap.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/AbstractNavigableMap.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/TransformedListIterator.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingImmutableSet.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/UnmodifiableSortedMultiset.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingBlockingDeque.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/CompactLinkedHashSet.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/CompactHashMap.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-

jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/CompactHashSet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/TransformedIterator.java

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 */
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
 *   ImmutableSortedMap#of(Comparable, Object)}.</b>
 */
```

Found in path(s):

```
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
```

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 */
/**
```



```
* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned array.
*
* <p>This method assumes that the collection size doesn't change while the method is running.
*
* <p>TODO(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/
```

Found in path(s):

```
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/ObjectArrays.java
```

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/ImmutableBiMap.java
```

```
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/StandardTable.java
```

```
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/CollectPreconditions.java
```

```
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/Serialization.java
```

```
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/Range.java
```

```
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/HashBasedTable.java
```

```
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/EmptyImmutableListMultimap.java
```

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Table.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableMultiset.java

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jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/ClosingFuture.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/graph/Traverser.java
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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
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```

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/SmallCharMatcher.java

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*/

/**

* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.

*/

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/primitives/ImmutableDoubleArray.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-

jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingLock.java
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jar/com/google/common/hash/LongAdder.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/AtomicDoubleArray.java
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jar/com/google/common/collect/JdkBackedImmutableMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/IndexedImmutableSet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java
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 */
/**
 * Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular
 * version.
 */
```

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
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 */
/**
```

* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/eventbus/Subscriber.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-

jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/primitives/Booleans.java
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jar/com/google/common/base/PatternCompiler.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/base/JdkPattern.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/hash/Java8Compatibility.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/math/ToDoubleRounder.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/Java8Compatibility.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/CompactHashing.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/IncidentEdgeSet.java

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- * /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/MutableNetwork.java
- * /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/MutableGraph.java
- * /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/Graph.java
- * /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/TopKSelector.java
- * /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/RecursiveDeleteOption.java
- * /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/ImmutableGraph.java
- * /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/SuccessorsFunction.java
- * /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/ImmutableNetwork.java
- * /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/PredecessorsFunction.java
- * /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/Network.java
- * /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/InsecureRecursiveDeleteException.java
- * /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/Graphs.java

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* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's java.util.HashMap class.

*/

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/Striped.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/hash/package-info.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ConsumingQueueIterator.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/hash/FarmHashFingerprint64.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/CombinedFuture.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/Platform.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/hash/MacHashFunction.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/AggregateFutureState.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/AsyncCallable.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/hash/LittleEndianByteArray.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/InterruptibleTask.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/ReaderInputStream.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/hash/SipHashFunction.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/math/LinearTransformation.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/FilteredKeyMultimap.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/hash/LongAddables.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/reflect/MutableTypeToInstanceMap.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/html/package-info.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/math/PairedStatsAccumulator.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/ByteSink.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/FileWriteMode.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMultiset.java


```
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/Count.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/AbstractRangeSet.java
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```

```
*/
```

```
/**
```

```
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
```

```
*
```

```
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/Partially.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/primitives/SignedBytes.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/escape/ArrayBasedEscaperMap.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/base/Platform.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/DenseImmutableTable.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/RowSortedTable.java

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jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/TimeLimiter.java
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jar/com/google/common/util/concurrent/TimeoutFuture.java
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jar/com/google/common/util/concurrent/AggregateFuture.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
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jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java

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jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-

jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/FilteredMultimapValues.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/net/package-info.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/ContiguousSet.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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jar/com/google/common/hash/Crc32cHashFunction.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/base/Present.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-

jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/base/Absent.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-

jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/math/package-info.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/base/Optional.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/WrappingExecutorService.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/CollectSpliterators.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
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*/

/**

* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
* version.

*/

Found in path(s):

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/primitives/IntsMethodsForWeb.java
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 */
```

Found in path(s):

```
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/ImmutableSortedAsList.java
```

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 */
```

```
/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
 * which contained the following notice:
 *
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 * the public domain, as explained at http://creativecommons.org/publicdomain/zero/1.0/
 *
 * Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.
 */
```

Found in path(s):

```
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/MoreExecutors.java
```

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jar/com/google/common/collect/SortedMultisets.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/collect/SortedMultiset.java

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jar/com/google/common/primitives/Platform.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-
jar/com/google/common/util/concurrent/Internal.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/DirectedNetworkConnections.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/MoreCollectors.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/StandardNetwork.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/StandardMutableGraph.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/graph/GraphConnections.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/reflect/Reflection.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-

jar/com/google/common/util/concurrent/ServiceManagerBridge.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ReverseNaturalOrdering.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableSet.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/AbstractSortedSetMultimap.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingSortedMap.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ByFunctionOrdering.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/SingletonImmutableSet.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/LinkedHashMultiset.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/CompoundOrdering.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Sets.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/HashMultimap.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/AbstractSetMultimap.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/NullsLastOrdering.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/TreeMultiset.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/LinkedHashMultimap.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Multimaps.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/MutableClassToInstanceMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Ordering.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ReverseOrdering.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/SortedSetMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ConcurrentHashMultiset.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Multisets.java

* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Maps.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Interner.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ImmutableSet.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/HashMultiset.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingCollection.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/AbstractBiMap.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/LexicographicalOrdering.java
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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/EnumBiMap.java

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* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ClassToInstanceMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/BiMap.java
* /opt/cola/permits/1349161722_1655893317.3351555/0/guava-30-0-jre-sources-3-jar/com/google/common/collect/TreeMultimap.java

1.1522 node-process 0.11.10

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1.1523 proxy-addr 2.0.7

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1.1524 load-json-file 4.0.0

1.1525 jsbn 0.1.1

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1.1526 oauth-provider 20100527

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* /opt/cola/permits/1257784256_1643012183.02/0/oauth-provider-20100527-sources-jar/net/oauth/server/HttpRequestMessage.java

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* /opt/cola/permits/1257784256_1643012183.02/0/oauth-provider-20100527-sources-jar/net/oauth/OAuthValidator.java

* /opt/cola/permits/1257784256_1643012183.02/0/oauth-provider-20100527-sources-jar/net/oauth/SimpleOAuthValidator.java

1.1527 antlr 2.7.7

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The primary ANTLR guy:

Terence Parr
parr@cs.usfca.edu
parr@antlr.org

1.1528 binary-extensions v2.2.0

1.1528.1 Available under license :

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1.1529 metrics-jersey2 4.1.31

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.jersey2

Build-Jdk-Spec: 1.8

Bundle-Description: A set of class providing Metrics integration for Jersey, the reference JAX-RS implementation.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration for Jersey 2.x

Bundle-SymbolicName: io.dropwizard.metrics.jersey2

Bundle-Version: 4.1.31

Created-By: Apache Maven Bundle Plugin 5.1.4

Export-Package: com.codahale.metrics.jersey2;uses:="com.codahale.metrics.javax.ws.rs.core.javax.ws.rs.ext,org.glassfish.jersey.server.model,org.glassfish.jersey.server.monitoring";version="4.1.31"

Implementation-Title: Metrics Integration for Jersey 2.x

Implementation-Version: 4.1.31

Import-Package: com.codahale.metrics;version="[4.1,5)",com.codahale.metrics.annotation;version="[4.1,5)",javax.ws.rs.core;version="[2.1,3)",javax.ws.rs.ext;version="[2.1,3)",org.glassfish.jersey.server;version="[2.35,3)",org.glassfish.jersey.server.model;version="[2.35,3)",org.glassfish.jersey.server.monitoring;version="[2.35,3)"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1317858419_1651160233.06/0/metrics-jersey2-4-1-31-jar/META-INF/MANIFEST.MF

1.1530 string-length v3.1.0

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1.1531 send 0.17.1

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1.1536 libjpeg 6b

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderrules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats.

The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining

code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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REFERENCES

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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department

C-Cube Microsystems, Inc.

1778 McCarthy Blvd.

Milpitas, CA 95035

phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at

<ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from [ftp.sgi.com](ftp://ftp.sgi.com) or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be

very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.1537 y18n 4.0.3

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1.1540 apache-commons-collections 4.4

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1.1544 activemq-protobuf 1.1

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<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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```

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1.1546 iferr 0.1.5

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1.1548 toidentifier 1.0.0

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1.1551 system-net-http 4.3.4

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1.1552 util.promisify 1.0.0

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1.1553 visual-studio-runtime 10.00.30319.1

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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1.1554 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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1.1555 eslint-visitor-keys 2.1.0

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1.1556 electron-to-chromium 1.3.861

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1.1557 floatdrop-pinkie 2.0.4

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1.1558 prelude-Is 1.2.1

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1.1559 callsites 3.1.0

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1.1560 css-loader 0.28.11

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1.1561 jackson-module-afterburner 2.13.1

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1.1562 which-module 2.0.0

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1.1563 xsdlib 2013.6.1

1.1563.1 Available under license :

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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ShortType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GMonthDayType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NonPositiveIntegerType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DateTimeType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/regex/JDKImpl.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/PatternFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/FloatingNumberType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/SerializationContext.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/AnyURIType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TotalDigitsFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedShortType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DataTypeWithFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/PositiveIntegerType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DateType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Discrete.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/regex/XercesImpl.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/regex/RegExpFactory.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ConcreteType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Comparator.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GYearType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NameType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DataTypeWithValueConstraintFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedByteType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/BigTimeDurationValueType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NonNegativeIntegerType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/CalendarParser.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/GDayType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/IntegerType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/IDType.java
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jar/com/sun/msv/datatype/xsd/QnameType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/BinaryBaseType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/RegexParser.java

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jar/com/sun/msv/datatype/regexp/message_ja.properties

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 jar/com/sun/msv/datatype/regexp/BMPattern.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-

```
jar/com/sun/msv/datatype/regexp/RegularExpression.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/Op.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/ParseException.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/Match.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/REUtil.java
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jar/com/sun/msv/datatype/regexp/Token.java
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jar/com/sun/msv/datatype/xsd/Messages_ja.properties
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1.1565 abego-treelayout-core 1.0.1

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1.1566 parse-asn1 5.1.6

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1.1567 asm-based-accessors-helper-used-by-json-smart 1.2

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- * /opt/cola/permits/1110825652_1611250456.32/0/accessors-smart-1-2-sources-jar/net/minidev/asm/DynamicClassLoader.java
- * /opt/cola/permits/1110825652_1611250456.32/0/accessors-smart-1-2-sources-jar/net/minidev/asm/Accessor.java
- * /opt/cola/permits/1110825652_1611250456.32/0/accessors-smart-1-2-sources-jar/net/minidev/asm/BeansAccess.java
- * /opt/cola/permits/1110825652_1611250456.32/0/accessors-smart-1-2-sources-jar/net/minidev/asm/ASMUtil.java

1.1568 jackson-dataformat-yaml 2.13.1

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1.1569 jaxb-api 2.3.1

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningExecutorService.java
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jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/CommonPattern.java
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jar/com/google/common/util/concurrent/AtomicLongMap.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MoreCollectors.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ForwardingNetwork.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/LinkedHashMapMultimapGwtSerializationDependencies.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractGraphBuilder.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardMutableGraph.java
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```

```
*/
```

```
/**
```

```
* Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular
* version.
```

```
*/
```

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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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```

```
*/
```

/**

* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
* version.
*/

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jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
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jar/com/google/common/collect/AbstractMultiset.java
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jar/com/google/common/collect/ForwardingMapEntry.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/BiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Multisets.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ReverseNaturalOrdering.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumHashMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Ordering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/LinkedListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ConcurrentHashMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/NullsLastOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractListMultimap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Interner.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ComparatorOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompoundOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSet.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MutableClassToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Iterables.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ExplicitOrdering.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ListMultimap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/LexicographicalOrdering.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/LinkedHashMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ClassToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Maps.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumBiMap.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Predicates.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Function.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Throwables.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/AsyncEventBus.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Primitives.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Files.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/package-info.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Objects.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/package-
info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Functions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteStreams.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/ToDoubleRounder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Java8Compatibility.java

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Found in path(s):

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AggregateFutureState.java

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Found in path(s):

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableMultiset.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionSequencer.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/IgnoreJRERequirement.java
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*

* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's

* java.util.HashMap class.

*/

Found in path(s):

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Striped.java

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Found in path(s):

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedInts.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingExecutorService.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractScheduledService.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedExecutionException.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Weigher.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheStats.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractCompositeHashFunction.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Hashing.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractLoadingCache.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/package-info.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/ForwardingLoadingCache.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheBuilderSpec.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Present.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Absent.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Enums.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/IntMath.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashFunction.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Count.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMultiset.java

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*/

/**

* Returns an array containing all of the elements in the specified collection. This method

* returns the elements in the order they are returned by the collection's iterator. The returned

* array is "safe" in that no references to it are maintained by the collection. The caller is

* thus free to modify the returned array.

*

* <p>This method assumes that the collection size doesn't change while the method is running.

```
*
* <p>TODO(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/
```

Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ObjectArrays.java
```

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```

```
*/
```

```
/*
```

```
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
```

```
*
```

```
* MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/SmallCharMatcher.java
```

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Java8Usage.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/VisibleForTesting.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashingInputStream.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/VerifyException.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionHandler.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractTable.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Runnables.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Verify.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionContext.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimapValues.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/IndexedImmutableSet.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactLinkedHashMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingBlockingDeque.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashSet.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractNavigableMap.java

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* the License.
*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/
```

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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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/*
* This following method is a modified version of one found in
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MultimapBuilder.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MoreFiles.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Table.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/StandardRowSortedTable.java

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Range.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMapKeySet.java
```

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```

```
*/
```

```
/**
```

```
* Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular
* version.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
```

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```

```
*/
```

Found in path(s):

- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableRangeSet.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/LinearTransformation.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSink.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAddable.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredKeyMultimap.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Parameter.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteSink.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Closer.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/Stats.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/html/package-info.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/PairedStatsAccumulator.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Element.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSource.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/package-info.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/StatsAccumulator.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/package-info.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/SipHashFunction.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeCapture.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAddable.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteSource.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/xml/package-
info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ServiceManager.java
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- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractBaseGraph.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/BaseGraph.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Traverser.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ClosingFuture.java

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- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/IncidentEdgeSet.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashing.java

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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Hashing.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Reflection.java
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* the License.

*/
/**

* Outer class that exists solely to let us write { @code Partially.GwtIncompatible } instead of plain
* { @code GwtIncompatible }. This is more accurate for { @link Futures#catching }, which is available
* under GWT but with a slightly different signature.

*

* <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler wouldn't recognize
* it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.

*/

Found in path(s):

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Partially.java

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jar/com/google/common/collect/TopKSelector.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/ImmutableGraph.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/SuccessorsFunction.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MutableNetwork.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/Network.java

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jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/LongAdder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/Striped64.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Shorts.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Doubles.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SequentialExecutor.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CharMatcher.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FluentIterable.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Booleans.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Chars.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/PercentEscaper.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Joiner.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Floats.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFutureTask.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/UnicodeEscaper.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Bytes.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MultiReader.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Stopwatch.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Converter.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Longs.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Ints.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/internal/Finalizer.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/InetAddresses.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/Escaper.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSetMultimap.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MinMaxPriorityQueue.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSequentialIterator.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingListMultimap.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RowSortedTable.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedSetMultimap.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableCollection.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableListIterator.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedMapDifference.java

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jar/com/google/common/collect/SortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/SortedMultisets.java

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jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/annotations/GwtIncompatible.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/Escapers.java
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*/

/**

* Not supported. You are attempting to create a map that may contain a non-{@code Comparable}

* key. Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy

* version.

*

* @throws UnsupportedOperationException always

* @deprecated Pass a key of type {@code Comparable} to use {@link

* `ImmutableSortedMap#of(Comparable, Object)`.

*/

Found in path(s):

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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 */
/**
 * Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
 * version.
 */
```

Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/FloatsMethodsForWeb.java
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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
```

jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/TableCollectors.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractIndexedListAdapter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/EmptyImmutableSetMultimap.java

1.1576 normalize-selector 0.2.0

1.1576.1 Available under license :

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Normalize-Selector

Normalize CSS selectors.

Examples:

```
* `#foo>.bar` -> `#foo > .bar`  
* ` #foo > .bar ` -> `#foo > .bar`  
* `foo[ a = 'b' ]` -> `foo[a='b']`
```

Tests

Run mocha tests on node.js with:

...

npm test

...

or:

...

node ./test/mocha/node-suite.js

...

rawgithub

View the browser suite directly on

[rawgithub](<https://rawgithub.com/getify/normalize-selector/master/test/mocha/browser-suite.html>)

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The code and all the documentation are released under the MIT license.

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Found in path(s):

* /opt/cola/permits/1119818250_1609795553.12/0/normalize-selector-0-2-0-2-tgz/package/README.md

1.1577 jackson-datatype-joda 2.13.1

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1.1578 javax-el 2.2.6

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1.1579 spring-aop 5.3.25

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1.1581 jackson-databind 2.13.4.1

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1.1588 commons-cli 1.2

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1.1589 jest-each 25.5.0

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1.1591 loader-runner 2.4.0

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1.1592 types-istanbul-reports 1.1.2

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1.1595 babel-plugin-transform-class-properties v6.24.1

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1.1596 json-smart 2.4.2

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jar/net/minidev/json/parser/JSONParserByteArray.java
```

```
* /opt/cola/permits/1177596534_1625244107.42/0/json-smart-2-4-2-sources-
jar/net/minidev/json/JSONStreamAware.java
```

```
* /opt/cola/permits/1177596534_1625244107.42/0/json-smart-2-4-2-sources-jar/net/minidev/json/JSONNavi.java
```

```
* /opt/cola/permits/1177596534_1625244107.42/0/json-smart-2-4-2-sources-
jar/net/minidev/json/parser/JSONParserBase.java
```

* /opt/cola/permits/1177596534_1625244107.42/0/json-smart-2-4-2-sources-jar/net/minidev/json/writer/ArrayMapper.java
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* /opt/cola/permits/1177596534_1625244107.42/0/json-smart-2-4-2-sources-jar/net/minidev/json/writer/BeansMapper.java
* /opt/cola/permits/1177596534_1625244107.42/0/json-smart-2-4-2-sources-jar/net/minidev/json/writer/JsonReader.java
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* /opt/cola/permits/1177596534_1625244107.42/0/json-smart-2-4-2-sources-jar/net/minidev/json/parser/JSONParser.java
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1.1597 fd-slicer 1.1.0

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1.1598 libffi 5.11.0

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1.1599 mimic-fn 2.1.0

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1.1600 guice-multibindings 2.0

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1.1614 unique-slug 2.0.2

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1.1615 whatwg-encoding 1.0.5

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1.1616 opentelemetry.exporter.jaeger 0.0.0.0

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1.1617 iarna-write-file-atomic 3.0.3

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1.1618 watchman 2.0.1

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1.1619 commonjs-assert v1.5.0

1.1619.1 Available under license :

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1.1620 jackson-databind 2.14.0

1.1620.1 Available under license :

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1.1621 postcss-discard-duplicates 2.1.0

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1.1622 natural-compare 1.4.0

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* @date 2015-10-26

* @stability 3 - Stable

* @author Lauri Rooden (<https://github.com/litejs/natural-compare-lite>)

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1.1623 jest-diff 25.5.0

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1.1624 jackson-jaxrs 1.9.13

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1.1625 babylon 6.18.0

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1.1631 babel-plugin-transform-object-rest-spread 6.26.0

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1.1632 postcss-safe-parser 3.0.1

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1.1633 maven-invoker 3.0.0

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1.1635 system-runtime-interopservices- runtimeinformation 4.3.0

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1.1636 @babel/parser 7.15.8

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1.1637 ognl 3.1.29

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```
/**
 * Thrown during bytecode enhancement conversions of ognl expressions to indicate
 * that a certain expression isn't currently supported as a pure java bytecode enhanced
 * version.
 *
 * <p>
 * If this exception is thrown it is expected that ognl will fall back to default ognl
 * evaluation of the expression.
 * </p>
 *
 * @author jkuhnert
 */
```

Found in path(s):

```
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-
jar/ognl/enhance/UnsupportedCompilationException.java
```

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* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTRootVarRef.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTProject.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ObjectPropertyAccessor.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTVarRef.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTStaticMethod.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/OgnlRuntime.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ListPropertyAccessor.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTList.java
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```
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/Ognl.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/OgnlContext.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTSelect.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTMap.java
No license file was found, but licenses were detected in source scan.
```

```
/*
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* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
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* specific language governing permissions and limitations
* under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/AccessibleObjectHandler.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-
jar/ognl/AccessibleObjectHandlerJDK9Plus.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-
jar/ognl/AccessibleObjectHandlerPreJDK9.java
No license file was found, but licenses were detected in source scan.
```

```
/*@bgen(jjtree) Generated By:JJTree: Do not edit this line. src/java/ognl/ognl.jj */
/*@egen*///-----
// Copyright (c) 1998-2004, Drew Davidson and Luke Blanshard
// All rights reserved.
//
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// modification, are permitted provided that the following conditions are
// met:
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```
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// OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
// AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
// OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
// THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
// DAMAGE.
//-----
```

```
/*
 * This file defines the syntax of OGNL, the Object-Graph Navigation Language. This
 * language was devised by Drew Davidson, who called it Key-Value Coding Language. Luke
 * Blanshard then made up the new name and reimplemented it using ANTLR, refining and
 * polishing the language a bit on the way. Drew maintained the system for a couple of
 * years; then Luke converted the ANTLR grammar to JavaCC, to eliminate the run-time
 * dependency on ANTLR.
 *
 * See package.html for a description of the language.
 */
```

```
options {
    // Parser options
    LOOKAHEAD      = 1;
    STATIC         = false;
    JAVA_UNICODE_ESCAPE = true;
    UNICODE_INPUT  = true;
}
```

```
PARSER_BEGIN(OgnlParser)
```

```
package ognl;
```

```
import java.math.*;
```

```
/**
```

```
 * OgnlParser is a JavaCC parser class; it translates OGNL expressions into abstract
```

```

* syntax trees (ASTs) that can then be interpreted by the getValue and setValue methods.
*/
public class OgnlParser/* @bgen(jjtree)*/implements OgnlParserTreeConstants/* @egen*/
{ /* @bgen(jjtree)*/
    protected JJTOgnlParserState jjtree = new JJTOgnlParserState();

    /* @egen*/
}

PARSER_END(OgnlParser)

```

```

/**
 * This is the top-level construct of OGNL.
 */
Node topLevelExpression() : {}
{
    expression() <EOF> { return jjtree.rootNode(); }
}

// sequence (level 14)
void expression() : {}
{
    assignmentExpression() ( " , /* @bgen(jjtree) #Sequence( 2) */
        {
            ASTSequence jjtn001 = new ASTSequence(JJTSEQUENCE);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/* @egen*/ assignmentExpression()/* @bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {

```

```

        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
    /*@egen*/    )*
}

// assignment expression (level 13)
void assignmentExpression() : {}
{
    conditionalTestExpression() [ "="/*@bgen(jjtree) #Assign( 2) */
        {
            ASTAssign jjtn001 = new ASTAssign(JJTASSIGN);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ assignmentExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
    }
/*@egen*/    ]
}

```

```

// conditional test (level 12)
void conditionalTestExpression() : {}
{
    logicalOrExpression()
        [ "?" conditionalTestExpression() ":"/*@bgen(jjtree) #Test( 3) */
        {
            ASTTest jjtn001 = new ASTTest(JJTTEST);
            boolean jjtc001 = true;

```

```

        jjtree.openNodeScope(jjtn001);
    }
    try {
/*@egen*/ conditionalTestExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 3);
        }
    }
}
/*@egen*/ ]
}

```

// logical or (||) (level 11)

void logicalOrExpression() : {}

{

logicalAndExpression() ("||" | "or")/*@bgen(jjtree) #Or(2) */

{

ASTOr jjtn001 = new ASTOr(JJTOR);

boolean jjtc001 = true;

jjtree.openNodeScope(jjtn001);

}

try {

/*@egen*/ logicalAndExpression()/*@bgen(jjtree)*/

} catch (Throwable jjte001) {

if (jjtc001) {

jjtree.clearNodeScope(jjtn001);

jjtc001 = false;

} else {

jjtree.popNode();

}

if (jjte001 instanceof RuntimeException) {

throw (RuntimeException)jjte001;

}

if (jjte001 instanceof ParseException) {


```

        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}
/*@egen*/    )*
}

// logical and (&&) (level 10)
void logicalAndExpression() : {}
{
    inclusiveOrExpression() ("&&" | "and")/*@bgen(jjtree) #And( 2) */
    {
        ASTAnd jjtn001 = new ASTAnd(JJTAND);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
/*@egen*/ inclusiveOrExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
}
/*@egen*/    )*
}

```

```

// bitwise or non-short-circuiting or (|) (level 9)
void inclusiveOrExpression() : {}

```

```

{
    exclusiveOrExpression() (("|" | "bor")/*@bgen(jjtree) #BitOr( 2) */
        {
            ASTBitOr jjtn001 = new ASTBitOr(JJTBITOR);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ exclusiveOrExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
/*@egen*/    )
}

```

// exclusive or (^) (level 8)

```
void exclusiveOrExpression() : {}
```

```

{
    andExpression() (("^^" | "xor")/*@bgen(jjtree) #Xor( 2) */
        {
            ASTXor jjtn001 = new ASTXor(JJTXOR);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ andExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {

```

```

        jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}
/*@egen*/    )*
}

// bitwise or non-short-circuiting and (&) (level 7)
void andExpression() : {}
{
    equalityExpression() ((" & " | "band")/*@bgen(jjtree) #BitAnd( 2) */
        {
            ASTBitAnd jjtn001 = new ASTBitAnd(JJTBITAND);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ equalityExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
    }
}

```

```

/*@egen*/      )*
}

// equality/inequality (==/!=) (level 6)
void equalityExpression() : {}
{
    relationalExpression()
    (
        ("==" | "eq")/*@bgen(jjtree) #Eq( 2) */
        {
            ASTEq jjtn001 = new ASTEq(JJTEQ);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ relationalExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
    }
/*@egen*/
|
    ("!=" | "neq")/*@bgen(jjtree) #NotEq( 2) */
    {
        ASTNotEq jjtn002 = new ASTNotEq(JJTNOTEQ);
        boolean jjtc002 = true;
        jjtree.openNodeScope(jjtn002);
    }
    try {
/*@egen*/ relationalExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte002) {
        if (jjtc002) {

```

```

        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
/*@egen*/
)*
}

```

```

// boolean relational expressions (level 5)
void relationalExpression() : {}
{
    shiftExpression()
    (
        ("<" | "lt")/*@bgen(jjtree) #Less( 2) */
        {
            ASTLess jjtn001 = new ASTLess(JJTLESS);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
        }
    )
}

```

```

        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
}
/*@egen*/
|
(">" | "gt")/*@bgen(jjtree) #Greater( 2) */
{
    ASTGreater jjtn002 = new ASTGreater(JJTGREATER);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
}
/*@egen*/
|
("<=" | "lte")/*@bgen(jjtree) #LessEq( 2) */
{
    ASTLessEq jjtn003 = new ASTLessEq(JJTLESSEQ);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
}
try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
    }
}
}

```

```

        jjtc003 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte003 instanceof RuntimeException) {
        throw (RuntimeException)jjte003;
    }
    if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    }
    throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}
/*@egen*/
|
    (">=" | "gte")/*@bgen(jjtree) #GreaterEq( 2) */
    {
        ASTGreaterEq jjtn004 = new ASTGreaterEq(JJTGREATEREQ);
        boolean jjtc004 = true;
        jjtree.openNodeScope(jjtn004);
    }
    try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte004) {
        if (jjtc004) {
            jjtree.clearNodeScope(jjtn004);
            jjtc004 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte004 instanceof RuntimeException) {
            throw (RuntimeException)jjte004;
        }
        if (jjte004 instanceof ParseException) {
            throw (ParseException)jjte004;
        }
        throw (Error)jjte004;
    } finally {
        if (jjtc004) {
            jjtree.closeNodeScope(jjtn004, 2);
        }
    }
}
/*@egen*/
|
    "in"/*@bgen(jjtree) #In( 2) */

```

```

    {
        ASTIn jjtn005 = new ASTIn(JJTIN);
        boolean jjtc005 = true;
        jjtree.openNodeScope(jjtn005);
    }
    try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte005) {
        if (jjtc005) {
            jjtree.clearNodeScope(jjtn005);
            jjtc005 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte005 instanceof RuntimeException) {
            throw (RuntimeException)jjte005;
        }
        if (jjte005 instanceof ParseException) {
            throw (ParseException)jjte005;
        }
        throw (Error)jjte005;
    } finally {
        if (jjtc005) {
            jjtree.closeNodeScope(jjtn005, 2);
        }
    }
/*@egen*/
|
    "not" "in"/*@bgen(jjtree) #NotIn( 2) */
    {
        ASTNotIn jjtn006 = new ASTNotIn(JJTNOTIN);
        boolean jjtc006 = true;
        jjtree.openNodeScope(jjtn006);
    }
    try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte006) {
        if (jjtc006) {
            jjtree.clearNodeScope(jjtn006);
            jjtc006 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte006 instanceof RuntimeException) {
            throw (RuntimeException)jjte006;
        }
        if (jjte006 instanceof ParseException) {
            throw (ParseException)jjte006;
        }
    }

```



```

    }
    throw (Error)jjte006;
} finally {
    if (jjtc006) {
        jjtree.closeNodeScope(jjtn006, 2);
    }
}
}
/*@egen*/
)*
}

// bit shift expressions (level 4)
void shiftExpression() : {}
{
    additiveExpression()
    (
        ("<<" | "shl")/*@bgen(jjtree) #ShiftLeft( 2) */
        {
            ASTShiftLeft jjtn001 = new ASTShiftLeft(JJTSHIFTLEFT);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ additiveExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
/*@egen*/
|
        (">>" | "shr")/*@bgen(jjtree) #ShiftRight( 2) */
        {

```

```

        ASTShiftRight jjtn002 = new ASTShiftRight(JJTSHIFTRIGHT);
        boolean jjtc002 = true;
        jjtree.openNodeScope(jjtn002);
    }
    try {
/*@egen*/ additiveExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte002) {
        if (jjtc002) {
            jjtree.clearNodeScope(jjtn002);
            jjtc002 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte002 instanceof RuntimeException) {
            throw (RuntimeException)jjte002;
        }
        if (jjte002 instanceof ParseException) {
            throw (ParseException)jjte002;
        }
        throw (Error)jjte002;
    } finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002, 2);
        }
    }
/*@egen*/
    |
    (">>>" | "ushr")/*@bgen(jjtree) #UnsignedShiftRight( 2) */
    {
        ASTUnsignedShiftRight jjtn003 = new ASTUnsignedShiftRight(JJTUNSIGNEDSHIFTRIGHT);
        boolean jjtc003 = true;
        jjtree.openNodeScope(jjtn003);
    }
    try {
/*@egen*/ additiveExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte003) {
        if (jjtc003) {
            jjtree.clearNodeScope(jjtn003);
            jjtc003 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte003 instanceof RuntimeException) {
            throw (RuntimeException)jjte003;
        }
        if (jjte003 instanceof ParseException) {
            throw (ParseException)jjte003;
        }
    }

```

```

        throw (Error)jjte003;
    } finally {
        if (jjtc003) {
            jjtree.closeNodeScope(jjtn003, 2);
        }
    }
}

/*@egen*/
)*
}

// binary addition/subtraction (level 3)
void additiveExpression() : {}
{
    multiplicativeExpression()
    (
        "+"/*@bgen(jjtree) #Add( 2) */
        {
            ASTAdd jjtn001 = new ASTAdd(JJTADD);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ multiplicativeExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
    }
/*@egen*/
|
    "-"/*@bgen(jjtree) #Subtract( 2) */
    {
        ASTSubtract jjtn002 = new ASTSubtract(JJTSUBTRACT);

```

```

        boolean jjtc002 = true;
        jjtree.openNodeScope(jjtn002);
    }
    try {
/*@egen*/ multiplicativeExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte002) {
        if (jjtc002) {
            jjtree.clearNodeScope(jjtn002);
            jjtc002 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte002 instanceof RuntimeException) {
            throw (RuntimeException)jjte002;
        }
        if (jjte002 instanceof ParseException) {
            throw (ParseException)jjte002;
        }
        throw (Error)jjte002;
    } finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002, 2);
        }
    }
/*@egen*/
    )*
}

// multiplication/division/remainder (level 2)
void multiplicativeExpression() : {}
{
    unaryExpression()
    (
        "*"/*@bgen(jjtree) #Multiply( 2) */
        {
            ASTMultiply jjtn001 = new ASTMultiply(JJTMULTIPLY);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
        }
    )
}

```

```

    }
    if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}
/*@egen*/
|
"/"/*@bgen(jjtree) #Divide( 2) */
{
    ASTDivide jjtn002 = new ASTDivide(JJTDIVIDE);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
/*@egen*/
|
"% "/*@bgen(jjtree) #Remainder( 2) */
{
    ASTRemainder jjtn003 = new ASTRemainder(JJTREMAINDER);
    boolean jjtc003 = true;

```

```

        jjtree.openNodeScope(jjtn003);
    }
    try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte003) {
        if (jjtc003) {
            jjtree.clearNodeScope(jjtn003);
            jjtc003 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte003 instanceof RuntimeException) {
            throw (RuntimeException)jjte003;
        }
        if (jjte003 instanceof ParseException) {
            throw (ParseException)jjte003;
        }
        throw (Error)jjte003;
    } finally {
        if (jjtc003) {
            jjtree.closeNodeScope(jjtn003, 2);
        }
    }
/*@egen*/
    )*
}

// unary (level 1)
void unaryExpression() : {
    StringBuffer sb;
    Token t;
    ASTInstanceof ionode;
}
{
    (
        "-"//*@bgen(jjtree) #Negate( 1) */
        {
            ASTNegate jjtn001 = new ASTNegate(JJTNEGATE);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {

```

```

        jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 1);
    }
}
/*@egen*/
|
"+" unaryExpression() // Just leave it there
|
"~"/*@bgen(jjtree) #BitNegate( 1) */
{
    ASTBitNegate jjtn002 = new ASTBitNegate(JJTBITNEGATE);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 1);
    }
}
/*@egen*/
|
("!" | "not")/*@bgen(jjtree) #Not( 1) */

```

```

        {
            ASTNot jjtn003 = new ASTNot(JJTNOT);
            boolean jjtc003 = true;
            jjtree.openNodeScope(jjtn003);
        }
        try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte003) {
            if (jjtc003) {
                jjtree.clearNodeScope(jjtn003);
                jjtc003 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte003 instanceof RuntimeException) {
                throw (RuntimeException)jjte003;
            }
            if (jjte003 instanceof ParseException) {
                throw (ParseException)jjte003;
            }
            throw (Error)jjte003;
        } finally {
            if (jjtc003) {
                jjtree.closeNodeScope(jjtn003, 1);
            }
        }
/*@egen*/
    |
    navigationChain()
    [
        "instanceof"
        t = <IDENT>/*@bgen(jjtree) #Instanceof( 1) */
        {
            ASTInstanceof jjtn004 = new ASTInstanceof(JJTINSTANCEOF);
            boolean jjtc004 = true;
            jjtree.openNodeScope(jjtn004);
        }
        try {
/*@egen*//*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn004, 1);
            jjtc004 = false;
        }
/*@egen*/ { sb = new StringBuffer(t.image); ionode = jjtn004; }/*@bgen(jjtree)*/
        } finally {
            if (jjtc004) {
                jjtree.closeNodeScope(jjtn004, 1);
            }
        }
    ]

```



```

    }
/*@egen*/
    ( "." t = <IDENT>      { sb.append('.').append( t.image ); }
    )*                    { ionode.setTargetType( new String(sb) ); }
    ]
)
}

// navigation chain: property references, method calls, projections, selections, etc.
void navigationChain() : {}
{
    primaryExpression()
    ( "./*@bgen(jjtree) #Chain( 2) */"
    {
        ASTChain jjtn001 = new ASTChain(JJTCHAIN);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
/*@egen*/
        ( /* Prevent the "eval" ambiguity from issuing a warning; see discussion below. */
        ( LOOKAHEAD(2) methodCall() | propertyName() )
        // Also handle "{", which requires a lookahead of 2.
        | ( LOOKAHEAD(2) projection() | selection() )
        | "(" expression() ")"
        )/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
/*@egen*/

```

```

/*@bgen(jjtree) #Chain( 2) */
{
    ASTChain jjtn002 = new ASTChain(JJTCHAIN);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*/ index()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
/*@egen*/

| "(" expression()/*@bgen(jjtree) #Eval( 2) */
{
    ASTEval jjtn003 = new ASTEval(JJTEVAL);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
}
try {
/*@egen*/ ")"/*@bgen(jjtree)*/
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}
/*@egen*/

```

/* Using parentheses to indicate evaluation of the current object makes this language ambiguous, because the expression "ident(args)" could be seen as a single method call or as a property name followed by an

evaluation. We always put the method call first and turn off the ambiguity warning; we always want to interpret this as a method call. */

```
)*
}

void primaryExpression() : {
    Token t;
    String className = null;
}
{
    (
        (<CHAR_LITERAL> | <BACK_CHAR_LITERAL> | <STRING_LITERAL> | <INT_LITERAL> |
        <FLT_LITERAL>)/**@bgen(jjtree) #Const( 0) */
        {
            ASTConst jjtn001 = new ASTConst(JJTCONST);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
            /**@egen**/@bgen(jjtree)*/
            {
                jjtree.closeNodeScope(jjtn001, 0);
                jjtc001 = false;
            }
            /**@egen*/
            { jjtn001.setValue( token_source.literalValue ); /**@bgen(jjtree)*/
            } finally {
                if (jjtc001) {
                    jjtree.closeNodeScope(jjtn001, 0);
                }
            }
        }
        /**@egen*/
        |
        "true"/**@bgen(jjtree) #Const( 0) */
        {
            ASTConst jjtn002 = new ASTConst(JJTCONST);
            boolean jjtc002 = true;
            jjtree.openNodeScope(jjtn002);
        }
        try {
            /**@egen**/@bgen(jjtree)*/
            {
                jjtree.closeNodeScope(jjtn002, 0);
                jjtc002 = false;
            }
        }
    )
}
```

```

/*@egen*/          { jjtn002.setValue( Boolean.TRUE ); }/*@bgen(jjtree)*/
                    } finally {
                    if (jjtc002) {
                        jjtree.closeNodeScope(jjtn002, 0);
                    }
                    }

/*@egen*/
|
  "false"/*@bgen(jjtree) #Const( 0) */
    {
      ASTConst jjtn003 = new ASTConst(JJTCONST);
      boolean jjtc003 = true;
      jjtree.openNodeScope(jjtn003);
    }
    try {
/*@egen*//*@bgen(jjtree)*/
    {
      jjtree.closeNodeScope(jjtn003, 0);
      jjtc003 = false;
    }
/*@egen*/
    { jjtn003.setValue( Boolean.FALSE ); }/*@bgen(jjtree)*/
    } finally {
    if (jjtc003) {
      jjtree.closeNodeScope(jjtn003, 0);
    }
    }
}

/*@egen*/
|/*@bgen(jjtree) #Const( 0) */
  {
    ASTConst jjtn004 = new ASTConst(JJTCONST);
    boolean jjtc004 = true;
    jjtree.openNodeScope(jjtn004);
  }
  try {
/*@egen*/
  "null"/*@bgen(jjtree)*/
  } finally {
  if (jjtc004) {
    jjtree.closeNodeScope(jjtn004, 0);
  }
  }
}

/*@egen*/          // Null is the default value in an ASTConst
|
  LOOKAHEAD(2) "#this"/*@bgen(jjtree) #ThisVarRef( 0) */
    {
      ASTThisVarRef jjtn005 = new ASTThisVarRef(JJTTHISVARREF);
      boolean jjtc005 = true;
      jjtree.openNodeScope(jjtn005);
    }

```

```

    }
    try {
/*@egen*//*@bgen(jjtree)*/
    {
        jjtree.closeNodeScope(jjtn005, 0);
        jjtc005 = false;
    }
/*@egen*/    { jjtn005.setName( "this" ); }/*@bgen(jjtree)*/
    } finally {
        if (jjtc005) {
            jjtree.closeNodeScope(jjtn005, 0);
        }
    }
/*@egen*/
|
    LOOKAHEAD(2) "#root"/*@bgen(jjtree) #RootVarRef( 0) */
    {
        ASTRootVarRef jjtn006 = new ASTRootVarRef(JJTROOTVARREF);
        boolean jjtc006 = true;
        jjtree.openNodeScope(jjtn006);
    }
    try {
/*@egen*//*@bgen(jjtree)*/
    {
        jjtree.closeNodeScope(jjtn006, 0);
        jjtc006 = false;
    }
/*@egen*/    { jjtn006.setName( "root" ); }/*@bgen(jjtree)*/
    } finally {
        if (jjtc006) {
            jjtree.closeNodeScope(jjtn006, 0);
        }
    }
/*@egen*/
|
    LOOKAHEAD(2) "#" t=<IDENT>/*@bgen(jjtree) #VarRef( 0) */
    {
        ASTVarRef jjtn007 = new ASTVarRef(JJTVARREF);
        boolean jjtc007 = true;
        jjtree.openNodeScope(jjtn007);
    }
    try {
/*@egen*//*@bgen(jjtree)*/
    {
        jjtree.closeNodeScope(jjtn007, 0);
        jjtc007 = false;
    }
/*@egen*/    { jjtn007.setName( t.image ); }/*@bgen(jjtree)*/

```

```

        } finally {
        if (jjtc007) {
            jjtree.closeNodeScope(jjtn007, 0);
        }
    }

/*@egen*/
|
    LOOKAHEAD(2) ":" "[" expression() "]"/*@bgen(jjtree) #Const( 1) */
    {
        ASTConst jjtn008 = new ASTConst(JJTCONST);
        boolean jjtc008 = true;
        jjtree.openNodeScope(jjtn008);
    }
    try {
/*@egen*//*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn008, 1);
            jjtc008 = false;
        }
/*@egen*/ { jjtn008.setValue( jjtn008.jjtGetChild(0) ); }/*@bgen(jjtree)*/
    } finally {
        if (jjtc008) {
            jjtree.closeNodeScope(jjtn008, 1);
        }
    }

/*@egen*/
|
    staticReference()
|
    LOOKAHEAD(2) constructorCall()
|
    // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
    ( LOOKAHEAD(2) methodCall() | propertyName() )
|
    index()
|
    "(" expression() ")"
|
    "{"/*@bgen(jjtree) List */
    {
        ASTList jjtn009 = new ASTList(JJTLIST);
        boolean jjtc009 = true;
        jjtree.openNodeScope(jjtn009);
    }
    try {
/*@egen*/ [assignmentExpression() ("," assignmentExpression())]/*@bgen(jjtree)*/
    } catch (Throwable jjte009) {
        if (jjtc009) {

```

```

        jjtree.clearNodeScope(jjtn009);
        jjtc009 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte009 instanceof RuntimeException) {
        throw (RuntimeException)jjte009;
    }
    if (jjte009 instanceof ParseException) {
        throw (ParseException)jjte009;
    }
    throw (Error)jjte009;
} finally {
    if (jjtc009) {
        jjtree.closeNodeScope(jjtn009, true);
    }
}
/*@egen*/    "}"
|
    LOOKAHEAD(2)//*@bgen(jjtree) Map */
    {
        ASTMap jjtn010 = new ASTMap(JJTMAP);
        boolean jjtc010 = true;
        jjtree.openNodeScope(jjtn010);
    }
    try {
/*@egen*/ ( "#" (className=classReference())? "{" [keyValueExpression() ("," keyValueExpression())*] {
jjtn010.setClassName(className); } "}")/*@bgen(jjtree)*/
    } catch (Throwable jjte010) {
        if (jjtc010) {
            jjtree.clearNodeScope(jjtn010);
            jjtc010 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte010 instanceof RuntimeException) {
            throw (RuntimeException)jjte010;
        }
        if (jjte010 instanceof ParseException) {
            throw (ParseException)jjte010;
        }
        throw (Error)jjte010;
    } finally {
        if (jjtc010) {
            jjtree.closeNodeScope(jjtn010, true);
        }
    }
}
/*@egen*/

```

```

)
}

void keyValueExpression() : {
  /*@bgen(jtree) KeyValue */
  {
    ASTKeyValue jjtn001 = new ASTKeyValue(JJTKEYVALUE);
    boolean jjtc001 = true;
    jtree.openNodeScope(jjtn001);
  }
  try {
    /*@egen*/
    ( assignmentExpression( ":" assignmentExpression()? )/*@bgen(jtree)*/
  } catch (Throwable jjte001) {
    if (jjtc001) {
      jtree.clearNodeScope(jjtn001);
      jjtc001 = false;
    } else {
      jtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
      throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
      throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
  } finally {
    if (jjtc001) {
      jtree.closeNodeScope(jjtn001, true);
    }
  }
  /*@egen*/
}

void staticReference() : {
  String className = "java.lang.Math";
  Token t;
}
{
  className=classReference()
  (// Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
  LOOKAHEAD(2)
  staticMethodCall( className )
  |
  t=<IDENT>/*@bgen(jtree) #StaticField( 0) */
  {
    ASTStaticField jjtn001 = new ASTStaticField(JJTSTATICFIELD);

```



```

        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
/*@egen*//*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn001, 0);
            jjtc001 = false;
        }
/*@egen*/        { jjtn001.init( className, t.image ); }/*@bgen(jjtree)*/
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 0);
            }
        }
    }
/*@egen*/
    )
}

```

```

String classReference(): {
    String result = "java.lang.Math";
}
{
    "@" ( result=className() )? "@" { return result; }
}

```

```

String className(): {
    Token t;
    StringBuffer result;
}
{
    t=<IDENT>          { result = new StringBuffer( t.image ); }
    ( "." t=<IDENT>    { result.append('.').append( t.image ); }
)*
    { return new String(result); }
}

```

```

void constructorCall() : {/*@bgen(jjtree) Ctor */
    ASTCtor jjtn000 = new ASTCtor(JJTCTOR);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
/*@egen*/
    String className;
    Token t;
    StringBuffer sb;
}
{/*@bgen(jjtree) Ctor */
    try {
/*@egen*/

```

```

"new" className=className()
(
    LOOKAHEAD(2) (
        "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"/*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn000, true);
            jjtc000 = false;
        }
/*@egen*/
        {
            jjtn000.setClassName(className);
        }
    )
|
    LOOKAHEAD(2) (
        "[" "]" "{"/*@bgen(jjtree) List */
        {
            ASTList jjtn001 = new ASTList(JTTLIST);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ [assignmentExpression() ("," assignmentExpression())*]/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, true);
            }
        }
/*@egen*/    }/*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn000, true);
            jjtc000 = false;
        }
/*@egen*/

```

```

        {
            jjtn000.setClassName(className);
            jjtn000.setArray(true);
        }
    )
    |
    LOOKAHEAD(2) (
        "[" assignmentExpression() "]"/*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn000, true);
            jjtc000 = false;
        }
/*@egen*/
        {
            jjtn000.setClassName(className);
            jjtn000.setArray(true);
        }
    )
    )/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

void propertyName()      : {/*@bgen(jjtree) Property */
    ASTProperty jjtn000 = new ASTProperty(JJTPROPERTY);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
/*@egen*/
    Token t;
}

```

```

/*@bgen(jjtree) Property */
try {
/*@egen*/
t=<IDENT>/*@bgen(jjtree) Const */
{
    ASTConst jjtn001 = new ASTConst(JJTCONST);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
}
try {
/*@egen*//*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn001, true);
    jjtc001 = false;
}
/*@egen*/ { jjtn001.setValue( t.image ); }/*@bgen(jjtree)*/
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, true);
    }
}
/*@egen*/    /*@bgen(jjtree)*/
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

void staticMethodCall( String className ) : {/*@bgen(jjtree) StaticMethod */
    ASTStaticMethod jjtn000 = new ASTStaticMethod(JJTSTATICMETHOD);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
/*@egen*/
    Token t;
}
/*@bgen(jjtree) StaticMethod */
try {
/*@egen*/
t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] )"/*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}
/*@egen*/
{ jjtn000.init( className, t.image ); }/*@bgen(jjtree)*/
} catch (Throwable jjte000) {

```

```

    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

void methodCall() : {/*@bgen(jjtree) Method */
    ASTMethod jjtn000 = new ASTMethod(JJTMETHOD);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
/*@egen*/
    Token t;
}
{/*@bgen(jjtree) Method */
    try {
/*@egen*/
        t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"/*@bgen(jjtree)*/
            {
                jjtree.closeNodeScope(jjtn000, true);
                jjtc000 = false;
            }
/*@egen*/
        { jjtn000.setMethodName( t.image ); }/*@bgen(jjtree)*/
    } catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte000 instanceof RuntimeException) {
            throw (RuntimeException)jjte000;
        }
    }
}

```

```

    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

/**
 * Apply an expression to all elements of a collection, creating a new collection
 * as the result.
 */
void projection() : {/*@bgen(jjtree) Project */
    ASTProject jjtn000 = new ASTProject(JJTPROJECT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/}
    {/*@bgen(jjtree) Project */
        try {
            /*@egen*/
            "{" expression() " }"/*@bgen(jjtree)*/
        } catch (Throwable jjte000) {
            if (jjtc000) {
                jjtree.clearNodeScope(jjtn000);
                jjtc000 = false;
            } else {
                jjtree.popNode();
            }
        }
        if (jjte000 instanceof RuntimeException) {
            throw (RuntimeException)jjte000;
        }
        if (jjte000 instanceof ParseException) {
            throw (ParseException)jjte000;
        }
        throw (Error)jjte000;
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }
    }
    /*@egen*/
}

void selection() : {}

```

```

{
    LOOKAHEAD(2) selectAll()
|
    LOOKAHEAD(2) selectFirst()
|
    LOOKAHEAD(2) selectLast()
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for which the expression returned true.
 */
void selectAll()      : {/*@bgen(jjtree) Select */
    ASTSelect jjtn000 = new ASTSelect(JJTSELECT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    {/*@bgen(jjtree) Select */
        try {
    /*@egen*/
            "{" "?" expression() "}"/*@bgen(jjtree)*/
        } catch (Throwable jjte000) {
            if (jjtc000) {
                jjtree.clearNodeScope(jjtn000);
                jjtc000 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte000 instanceof RuntimeException) {
                throw (RuntimeException)jjte000;
            }
            if (jjte000 instanceof ParseException) {
                throw (ParseException)jjte000;
            }
            throw (Error)jjte000;
        } finally {
            if (jjtc000) {
                jjtree.closeNodeScope(jjtn000, true);
            }
        }
    /*@egen*/
    }
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for the first element for which the expression returned true.
 */
void selectFirst()    : {/*@bgen(jjtree) SelectFirst */

```

```

ASTSelectFirst jjtn000 = new ASTSelectFirst(JJTSELECTFIRST);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/
{ /*@bgen(jjtree) SelectFirst */
    try {
/*@egen*/
        "{" "^" expression() }" /*@bgen(jjtree)*/
    } catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte000 instanceof RuntimeException) {
            throw (RuntimeException)jjte000;
        }
        if (jjte000 instanceof ParseException) {
            throw (ParseException)jjte000;
        }
        throw (Error)jjte000;
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }
    }
}
/*@egen*/
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for the first element for which the expression returned true.
 */
void selectLast() : { /*@bgen(jjtree) SelectLast */
    ASTSelectLast jjtn000 = new ASTSelectLast(JJTSELECTLAST);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
/*@egen*/
{ /*@bgen(jjtree) SelectLast */
    try {
/*@egen*/
        "{" "$" expression() }" /*@bgen(jjtree)*/
    } catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {

```



```

        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

void index()      : {/*@bgen(jjtree) Property */
    ASTProperty jjtn000 = new ASTProperty(JJTPROPERTY);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
/*@egen*/}
/*@bgen(jjtree) Property */
    try {
/*@egen*/
        "[" expression() "]"/*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn000, true);
            jjtc000 = false;
        }
/*@egen*/ { jjtn000.setIndexedAccess(true); }
|
<DYNAMIC_SUBSCRIPT>/*@bgen(jjtree) Const */
    {
        ASTConst jjtn001 = new ASTConst(JJTCONST);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
/*@egen*//*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn001, true);
            jjtc001 = false;
        }
/*@egen*/ { jjtn001.setValue( token_source.literalValue ); }/*@bgen(jjtree)*/
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, true);

```

```

        }
    }
    /*@egen*/    /*@bgen(jjtree)*/
    {
        jjtree.closeNodeScope(jjtn000, true);
        jjtc000 = false;
    }
    /*@egen*/
    {
        jjtn000.setIndexedAccess(true);
    }/*@bgen(jjtree)*/
    } catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte000 instanceof RuntimeException) {
            throw (RuntimeException)jjte000;
        }
        if (jjte000 instanceof ParseException) {
            throw (ParseException)jjte000;
        }
        throw (Error)jjte000;
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }
    }
    /*@egen*/
}

```

// LEXER PRODUCTIONS

TOKEN_MGR_DECLS:

```

{
    /** Holds the last value computed by a constant token. */
    Object literalValue;
    /** Holds the last character escaped or in a character literal. */
    private char charValue;
    /** Holds char literal start token. */
    private char charLiteralStartQuote;
    /** Holds the last string literal parsed. */
    private StringBuffer stringBuffer;

    /** Converts an escape sequence into a character value. */
    private char escapeChar()

```

```

{
    int ofs = image.length() - 1;
    switch ( image.charAt(ofs) ) {
        case 'n': return '\n';
        case 'r': return '\r';
        case 't': return '\t';
        case 'b': return '\b';
        case 'f': return '\f';
        case '\\': return '\\';
        case '\"': return '\"';
        case '\"': return '\"';
    }

    // Otherwise, it's an octal number. Find the backslash and convert.
    while ( image.charAt(--ofs) != '\\' )
        {}
    int value = 0;
    while ( ++ofs < image.length() )
        value = (value << 3) | (image.charAt(ofs) - '0');
    return (char) value;
}

private Object makeInt()
{
    Object result;
    String s = image.toString();
    int base = 10;

    if ( s.charAt(0) == '0' )
        base = (s.length() > 1 && (s.charAt(1) == 'x' || s.charAt(1) == 'X'))? 16 : 8;
    if ( base == 16 )
        s = s.substring(2); // Trim the 0x off the front
    switch ( s.charAt(s.length()-1) ) {
        case 'l': case 'L':
            result = Long.valueOf( s.substring(0,s.length()-1), base );
            break;

        case 'h': case 'H':
            result = new BigInteger( s.substring(0,s.length()-1), base );
            break;

        default:
            result = Integer.valueOf( s, base );
            break;
    }
    return result;
}

```

```

private Object makeFloat()
{
    String s = image.toString();
    switch ( s.charAt(s.length()-1) ) {
        case 'f': case 'F':
            return Float.valueOf( s );

        case 'b': case 'B':
            return new BigDecimal( s.substring(0,s.length()-1) );

        case 'd': case 'D':
        default:
            return Double.valueOf( s );
    }
}
}

```

// Whitespace -- ignored

SKIP:

```
{ " " | "\t" | "\f" | "\r" | "\n" }
```

// An identifier.

TOKEN:

```
{
< IDENT: <LETTER> (<LETTER>|<DIGIT>)* >
|

```

< #LETTER: [

```

"$",
"A"-"Z",
"_",
"a"-"z",
"\u00c0"-"u00d6",
"\u00d8"-"u00f6",
"\u00f8"-"u00ff",
"\u0100"-"u1fff",
"\u3040"-"u318f",
"\u3300"-"u337f",
"\u3400"-"u3d2d",
"\u4e00"-"u9fff",
"\uf900"-"ufaff"
] >
|

```

< #DIGIT:

```

[
"0"-"9",
"\u0660"-"u0669",
"\u06f0"-"u06f9",
"\u0966"-"u096f",

```

```

        "\u09e6"-"\u09ef",
        "\u0a66"-"\u0a6f",
        "\u0ae6"-"\u0aef",
        "\u0b66"-"\u0b6f",
        "\u0be7"-"\u0bef",
        "\u0c66"-"\u0c6f",
        "\u0ce6"-"\u0cef",
        "\u0d66"-"\u0d6f",
        "\u0e50"-"\u0e59",
        "\u0ed0"-"\u0ed9",
        "\u1040"-"\u1049"
    ]>
}

/**
 * Token for "dynamic subscripts", which are one of: [^], [], [$], and [*]. The
 * appropriate constant from the DynamicSubscript class is stored in the token manager's
 * "value" field.
 */
TOKEN:
{
    < DYNAMIC_SUBSCRIPT: "[" [ "^", "|", "$", "*" ] "]" >
    {
        switch (image.charAt(1)) {
            case '^': literalValue = DynamicSubscript.first; break;
            case '|': literalValue = DynamicSubscript.mid; break;
            case '$': literalValue = DynamicSubscript.last; break;
            case '*': literalValue = DynamicSubscript.all; break;
        }
    }
}

/**
 * Character and string literals, whose object value is stored in the token manager's
 * "literalValue" field.
 */
MORE:
{
    "\"" : WithinBackCharLiteral
|
    """" { stringBuffer = new StringBuffer(); }: WithinCharLiteral
|
    "\"" { stringBuffer = new StringBuffer(); }: WithinStringLiteral
}

<WithinCharLiteral> MORE:
{
    < ESC: "\" ( [ "n", "r", "t", "b", "f", "\\", "", "\^", "\'" ]

```

```

        | ([\"0\"-\"3\"])? [\"0\"-\"7\"] ([\"0\"-\"7\"])?
      )
    >
      { charValue = escapeChar(); stringBuffer.append(charValue); }
  |
  < (~[\"\"\", \"\\\"] ) >
    { charValue = image.charAt( image.length()-1 ); stringBuffer.append(charValue); }
}

```

<WithinCharLiteral> TOKEN:

```

{
  < CHAR_LITERAL: \"\">
  {
    if (stringBuffer.length() == 1) {
      literalValue = new Character( charValue );
    } else {
      literalValue = new String( stringBuffer );
    }
  }
  : DEFAULT
}

```

<WithinBackCharLiteral> MORE:

```

{
  < BACK_CHAR_ESC: <ESC> >
    { charValue = escapeChar(); }
  |
  < (~[\"^\", \"\\\"] ) >
    { charValue = image.charAt( image.length()-1 ); }
}

```

<WithinBackCharLiteral> TOKEN:

```

{
  < BACK_CHAR_LITERAL: \"^\">
    { literalValue = new Character( charValue ); }; DEFAULT
}

```

<WithinStringLiteral> MORE:

```

{
  < STRING_ESC: <ESC> >
    { stringBuffer.append( escapeChar() ); }
  |
  < (~[\"\"\", \"\\\"] ) >
    { stringBuffer.append( image.charAt(image.length()-1) ); }
}

```

<WithinStringLiteral> TOKEN:

```

{

```

```

<STRING_LITERAL: "\"" >
  { literalValue = new String( stringBuffer ); }
  : DEFAULT
}

/**
 * Integer or real Numeric literal, whose object value is stored in the token manager's
 * "literalValue" field.
 */
TOKEN:
{
  < INT_LITERAL:
    ( "0" ([ "0"-"7" ])* | [ "1"-"9" ] ([ "0"-"9" ])* | "0" [ "x", "X" ] ([ "0"-"9", "a"-"f", "A"-"F" ])+ )
    ([ "l", "L", "h", "H" ])?
  >
  { literalValue =
    makeInt(); }
|
  < FLT_LITERAL:
    ( <DEC_FLT> <EXPONENT>)? <FLT_SUFF>?
    | <DEC_DIGITS> <EXPONENT> <FLT_SUFF>?
    | <DEC_DIGITS> <FLT_SUFF>
  )
  >
  { literalValue = makeFloat(); }

| < #DEC_FLT: ([ "0"-"9" ])+ "." ([ "0"-"9" ])* | "." ([ "0"-"9" ])+ >
| < #DEC_DIGITS: ([ "0"-"9" ])+ >
| < #EXPONENT: [ "e", "E" ] ([ "+", "-" ])? ([ "0"-"9" ])+ >
| < #FLT_SUFF: [ "d", "D", "f", "F", "b", "B" ] >
}

```

Found in path(s):

* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ognl.jj

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```

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```

Found in path(s):

* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/DefaultMemberAccess.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/MapElementsAccessor.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/InappropriateExpressionException.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/EnumerationIterator.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/EnumerationPropertyAccessor.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTEq.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTNegate.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ArrayElementsAccessor.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/DynamicSubscript.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTNotEq.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ObjectArrayPool.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/IntHashMap.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/CollectionElementsAccessor.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ElementsAccessor.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/IteratorElementsAccessor.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/IteratorPropertyAccessor.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ObjectIndexedPropertyDescriptor.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/EvaluationPool.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/MethodFailedException.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTLess.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTTest.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ExpressionSyntaxException.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTBitOr.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTAnd.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/NumericTypes.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTInstanceOf.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTNotIn.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ClassResolver.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/DefaultClassResolver.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTKeyValue.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/OgnlException.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/EnumerationElementsAccessor.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTBitNegate.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTShiftRight.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTGreaterEq.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTSubtract.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/TypeConverter.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTNot.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTSelectFirst.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/SetPropertyAccessor.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTSequence.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/MemberAccess.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ObjectElementsAccessor.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/Node.java
 * /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/NoSuchPropertyException.java

* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTXor.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTOr.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTMultiply.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/Evaluation.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTShiftLeft.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTRemainder.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTGreater.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTBitAnd.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ObjectNullHandler.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTSelectLast.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTIn.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTDivide.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/NumberElementsAccessor.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTUnsignedShiftRight.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/DefaultTypeConverter.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTAdd.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTLessEq.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ExpressionNode.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/MethodAccessor.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/ASTAssign.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/IteratorEnumeration.java
* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/NullHandler.java

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Found in path(s):

* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/package.html

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//-----
```

/*

```
* This file defines the syntax of OGNL, the Object-Graph Navigation Language. This  
* language was devised by Drew Davidson, who called it Key-Value Coding Language. Luke  
* Blanshard then made up the new name and reimplemented it using ANTLR, refining and  
* polishing the language a bit on the way. Drew maintained the system for a couple of  
* years; then Luke converted the ANTLR grammar to JavaCC, to eliminate the run-time  
* dependency on ANTLR.
```

*

* See package.html for a description of the language.

*/

```
options {
    // Parser options
    LOOKAHEAD      = 1;
    STATIC         = false;
    JAVA_UNICODE_ESCAPE = true;
    UNICODE_INPUT  = true;

    // Tree options
    MULTI          = true;
    NODE_DEFAULT_VOID = true;
}
```

PARSER_BEGIN(OgnlParser)

package ognl;

import java.math.*;

/**

* OgnlParser is a JavaCC parser class; it translates OGNL expressions into abstract
* syntax trees (ASTs) that can then be interpreted by the getValue and setValue methods.

*/

```
public class OgnlParser
{
}
```

PARSER_END(OgnlParser)

/**

* This is the top-level construct of OGNL.

*/

```
Node topLevelExpression() : {}
{
    expression() <EOF> { return jjtree.rootNode(); }
}
```

// sequence (level 14)

```
void expression() : {}
{
    assignmentExpression() ( "," assignmentExpression() #Sequence(2) )*
}
```

```

// assignment expression (level 13)
void assignmentExpression() : {}
{
    conditionalTestExpression() [ "=" assignmentExpression() #Assign(2) ]
}

// conditional test (level 12)
void conditionalTestExpression() : {}
{
    logicalOrExpression()
    [ "?" conditionalTestExpression() ":" conditionalTestExpression() #Test(3) ]
}

// logical or (||) (level 11)
void logicalOrExpression() : {}
{
    logicalAndExpression() ( "||" | "or" ) logicalAndExpression() #Or(2) *
}

// logical and (&&) (level 10)
void logicalAndExpression() : {}
{
    inclusiveOrExpression() ( "&&" | "and" ) inclusiveOrExpression() #And(2) *
}

// bitwise or non-short-circuiting or (|) (level 9)
void inclusiveOrExpression() : {}
{
    exclusiveOrExpression() ( "|" | "bor" ) exclusiveOrExpression() #BitOr(2) *
}

// exclusive or (^) (level 8)
void exclusiveOrExpression() : {}
{
    andExpression() ( "^" | "xor" ) andExpression() #Xor(2) *
}

// bitwise or non-short-circuiting and (&) (level 7)
void andExpression() : {}
{
    equalityExpression() ( "&" | "band" ) equalityExpression() #BitAnd(2) *
}

```

```

// equality/inequality (==/!=) (level 6)
void equalityExpression() : { }
{
    relationalExpression()
    (
        ("==" | "eq") relationalExpression() #Eq(2)
        |
        ("!=" | "neq") relationalExpression() #NotEq(2)
    )*
}

// boolean relational expressions (level 5)
void relationalExpression() : { }
{
    shiftExpression()
    (
        ("<" | "lt") shiftExpression() #Less(2)
        |
        (">" | "gt") shiftExpression() #Greater(2)
        |
        ("<=" | "lte") shiftExpression() #LessEq(2)
        |
        (">=" | "gte") shiftExpression() #GreaterEq(2)
        |
        "in" shiftExpression() #In(2)
        |
        "not" "in" shiftExpression() #NotIn(2)
    )*
}

// bit shift expressions (level 4)
void shiftExpression() : { }
{
    additiveExpression()
    (
        ("<<" | "shl") additiveExpression() #ShiftLeft(2)
        |
        (">>" | "shr") additiveExpression() #ShiftRight(2)
        |
        (">>>" | "ushr") additiveExpression() #UnsignedShiftRight(2)
    )*
}

// binary addition/subtraction (level 3)
void additiveExpression() : { }

```

```

{
    multiplicativeExpression()
    (
        "+" multiplicativeExpression() #Add(2)
        |
        "-" multiplicativeExpression() #Subtract(2)
    )*
}

// multiplication/division/remainder (level 2)
void multiplicativeExpression() : { }
{
    unaryExpression()
    (
        "*" unaryExpression() #Multiply(2)
        |
        "/" unaryExpression() #Divide(2)
        |
        "%" unaryExpression() #Remainder(2)
    )*
}

// unary (level 1)
void unaryExpression() : {
    StringBuffer sb;
    Token t;
    ASTInstanceof ionode;
}
{
    (
        "-" unaryExpression() #Negate(1)
        |
        "+" unaryExpression() // Just leave it there
        |
        "~" unaryExpression() #BitNegate(1)
        |
        ("!" | "not") unaryExpression() #Not(1)
        |
        navigationChain()
        [
            "instanceof"
            t = <IDENT> { sb = new StringBuffer(t.image); ionode = jjtThis; } #Instanceof(1)
            ( "." t = <IDENT> { sb.append('.').append( t.image ); }
            )* { ionode.setTargetType( new String(sb) ); }
        ]
    )
}

```

```

// navigation chain: property references, method calls, projections, selections, etc.
void navigationChain() : {}
{
    primaryExpression()
    ( "."
      ( /* Prevent the "eval" ambiguity from issuing a warning; see discussion below. */
        ( LOOKAHEAD(2) methodCall() | propertyName() )
          // Also handle "{", which requires a lookahead of 2.
        | ( LOOKAHEAD(2) projection() | selection() )
        | "(" expression() ")"
      ) #Chain(2)

    | index() #Chain(2)

    | "(" expression() ")" #Eval(2)

      /* Using parentheses to indicate evaluation of the current
         object makes this language ambiguous, because the
         expression "ident(args)" could be seen as a single
         method call or as a property name followed by an
         evaluation. We always put the method call first and
         turn off the ambiguity warning; we always want to
         interpret this as a method call. */

    )*
  }

void primaryExpression() : {
    Token t;
    String className = null;
}
{
    (
      (<CHAR_LITERAL> | <BACK_CHAR_LITERAL> | <STRING_LITERAL> | <INT_LITERAL> |
      <FLT_LITERAL>)
        { jjtThis.setValue( token_source.literalValue ); } #Const(0)
    |
      "true"
        { jjtThis.setValue( Boolean.TRUE ); } #Const(0)
    |
      "false"
        { jjtThis.setValue( Boolean.FALSE ); } #Const(0)
    |
      "null" #Const(0) // Null is the default value in an ASTConst
    |
      LOOKAHEAD(2) "#this"
        { jjtThis.setName( "this" ); } #ThisVarRef(0)
    |

```

```

LOOKAHEAD(2) "#root"          { jjtThis.setName( "root" ); } #RootVarRef(0)
|
LOOKAHEAD(2) "#" t=<IDENT>      { jjtThis.setName( t.image ); } #VarRef(0)
|
LOOKAHEAD(2) ":" "[" expression() "]" { jjtThis.setValue( jjtThis.jjtGetChild(0) ); } #Const(1)
|
staticReference()
|
LOOKAHEAD(2) constructorCall()
|
// Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
( LOOKAHEAD(2) methodCall() | propertyName() )
|
index()
|
("(" expression() ")"
|
{" [assignmentExpression() ("," assignmentExpression())*] #List "}"
|
LOOKAHEAD(2) ( "#" (className=classReference())? "{" [keyValueExpression() (","
keyValueExpression())*] { jjtThis.setClassName(className); } "}" ) #Map
)
}

void keyValueExpression() : {
{
( assignmentExpression() (":" assignmentExpression())? ) #KeyValue
}
}

void staticReference() : {
String className = "java.lang.Math";
Token t;
}
{
className=classReference()
(// Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
LOOKAHEAD(2)
staticMethodCall( className )
|
t=<IDENT>          { jjtThis.init( className, t.image ); } #StaticField(0)
)
}

String classReference(): {
String result = "java.lang.Math";
}
{
"@ ( result=className() )? "@" { return result; }

```



```

}

String className(): {
    Token t;
    StringBuffer result;
}
{
    t=<IDENT>          { result = new StringBuffer( t.image ); }
    ( "." t=<IDENT>    { result.append('.').append( t.image ); }
    )*                { return new String(result); }
}

void constructorCall() #Ctor : {
    String className;
    Token t;
    StringBuffer sb;
}
{
    "new" className=className()
    (
        LOOKAHEAD(2) (
            "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
            {
                jjtThis.setClassName(className);
            }
        )
        |
        LOOKAHEAD(2) (
            "[" "]" "{" [ assignmentExpression() ( "," assignmentExpression() )* ] #List "]"
            {
                jjtThis.setClassName(className);
                jjtThis.setArray(true);
            }
        )
        |
        LOOKAHEAD(2) (
            "[" assignmentExpression() "]"
            {
                jjtThis.setClassName(className);
                jjtThis.setArray(true);
            }
        )
    )
}

void propertyName() #Property : {
    Token t;
}

```

```

{
  t=<IDENT> { jjtThis.setValue( t.image ); } #Const
}

void staticMethodCall( String className ) #StaticMethod : {
  Token t;
}
{
  t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
    { jjtThis.init( className, t.image ); }
}

void methodCall() #Method : {
  Token t;
}
{
  t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
    { jjtThis.setMethodName( t.image ); }
}

/**
 * Apply an expression to all elements of a collection, creating a new collection
 * as the result.
 */
void projection() #Project : {}
{
  "{" expression() "}"
}

void selection() : {}
{
  LOOKAHEAD(2) selectAll()
  |
  LOOKAHEAD(2) selectFirst()
  |
  LOOKAHEAD(2) selectLast()
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for which the expression returned true.
 */
void selectAll() #Select : {}
{
  "{" "?" expression() "}"
}

/**

```

```

* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for the first element for which the expression returned true.
*/
void selectFirst() #SelectFirst : {}
{
    "{" "^" expression() "}"
}

/**
* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for the first element for which the expression returned true.
*/
void selectLast() #SelectLast : {}
{
    "{" "$" expression() "}"
}

void index() #Property : {}
{
    "[" expression() "]" { jjtThis.setIndexedAccess(true); }
|
<DYNAMIC_SUBSCRIPT> { jjtThis.setValue( token_source.literalValue ); } #Const
{
    jjtThis.setIndexedAccess(true);
}
}

// LEXER PRODUCTIONS

TOKEN_MGR_DECLS:
{
    /** Holds the last value computed by a constant token. */
    Object literalValue;
    /** Holds the last character escaped or in a character literal. */
    private char charValue;
    /** Holds char literal start token. */
    private char charLiteralStartQuote;
    /** Holds the last string literal parsed. */
    private StringBuffer stringBuffer;

    /** Converts an escape sequence into a character value. */
    private char escapeChar()
    {
        int ofs = image.length() - 1;
        switch ( image.charAt(ofs) ) {
            case 'n': return '\n';
            case 'r': return '\r';
            case 't': return '\t';
        }
    }
}

```

```

    case 'b': return '\b';
    case 'f': return '\f';
    case '\\': return '\\';
    case '\"': return '\"';
    case '\"': return '\"';
}

// Otherwise, it's an octal number. Find the backslash and convert.
while ( image.charAt(--ofs) != '\\' )
    {}
int value = 0;
while ( ++ofs < image.length() )
    value = (value << 3) | (image.charAt(ofs) - '0');
return (char) value;
}

private Object makeInt()
{
    Object result;
    String s = image.toString();
    int base = 10;

    if ( s.charAt(0) == '0' )
        base = (s.length() > 1 && (s.charAt(1) == 'x' || s.charAt(1) == 'X'))? 16 : 8;
    if ( base == 16 )
        s = s.substring(2); // Trim the 0x off the front
    switch ( s.charAt(s.length()-1) ) {
        case 'l': case 'L':
            result = Long.valueOf( s.substring(0,s.length()-1), base );
            break;

        case 'h': case 'H':
            result = new BigInteger( s.substring(0,s.length()-1), base );
            break;

        default:
            result = Integer.valueOf( s, base );
            break;
    }
    return result;
}

private Object makeFloat()
{
    String s = image.toString();
    switch ( s.charAt(s.length()-1) ) {
        case 'f': case 'F':
            return Float.valueOf( s );
    }
}

```

```

    case 'b': case 'B':
        return new BigDecimal( s.substring(0,s.length()-1) );

    case 'd': case 'D':
    default:
        return Double.valueOf( s );
    }
}
}
}

```

// Whitespace -- ignored

SKIP:

```
{ " " | "\t" | "\f" | "\r" | "\n" }
```

// An identifier.

TOKEN:

```
{
  < IDENT: <LETTER> (<LETTER>|<DIGIT>)* >
|

```

< #LETTER: [

```

  "\u0024",
  "\u0041"-" \u005a",
  "\u005f",
  "\u0061"-" \u007a",
  "\u00c0"-" \u00d6",
  "\u00d8"-" \u00f6",
  "\u00f8"-" \u00ff",
  "\u0100"-" \u1fff",
  "\u3040"-" \u318f",
  "\u3300"-" \u337f",
  "\u3400"-" \u3d2d",
  "\u4e00"-" \u9fff",
  "\uf900"-" \ufaff"

```

] >

|

< #DIGIT:

```

[
  "\u0030"-" \u0039",
  "\u0660"-" \u0669",
  "\u06f0"-" \u06f9",
  "\u0966"-" \u096f",
  "\u09e6"-" \u09ef",
  "\u0a66"-" \u0a6f",
  "\u0ae6"-" \u0aef",
  "\u0b66"-" \u0b6f",
  "\u0be7"-" \u0bef",
  "\u0c66"-" \u0c6f",

```

```

        "\u0ce6"-"\u0cef",
        "\u0d66"-"\u0d6f",
        "\u0e50"-"\u0e59",
        "\u0ed0"-"\u0ed9",
        "\u1040"-"\u1049"
    ]>
}

/**
 * Token for "dynamic subscripts", which are one of: [^], [[]], [$], and [*]. The
 * appropriate constant from the DynamicSubscript class is stored in the token manager's
 * "value" field.
 */
TOKEN:
{
    < DYNAMIC_SUBSCRIPT: "[" [ "^", "|", "$", "*" ] "]" >
    {
        switch (image.charAt(1)) {
            case '^': literalValue = DynamicSubscript.first; break;
            case '|': literalValue = DynamicSubscript.mid; break;
            case '$': literalValue = DynamicSubscript.last; break;
            case '*': literalValue = DynamicSubscript.all; break;
        }
    }
}

/**
 * Character and string literals, whose object value is stored in the token manager's
 * "literalValue" field.
 */
MORE:
{
    "\"" : WithinBackCharLiteral
|
    "" { stringBuffer = new StringBuffer(); } : WithinCharLiteral
|
    "\"" { stringBuffer = new StringBuffer(); } : WithinStringLiteral
}

<WithinCharLiteral> MORE:
{
    < ESC: "\" ( [ "n", "r", "t", "b", "f", "\\", "", "~", "\" ]
        | ([ "0"- "3" ])? [ "0"- "7" ] ([ "0"- "7" ])?
        )
    >
    { charValue = escapeChar(); stringBuffer.append(charValue); }
|
    < (~[ "\"", "\"] ) >

```

```

        { charValue = image.charAt( image.length()-1 ); stringBuffer.append(charValue); }
    }

<WithinCharLiteral> TOKEN:
{
    < CHAR_LITERAL: "">
    {
        if (stringBuffer.length() == 1) {
            literalValue = new Character( charValue );
        } else {
            literalValue = new String( stringBuffer );
        }
    }
    : DEFAULT
}

<WithinBackCharLiteral> MORE:
{
    < BACK_CHAR_ESC: <ESC> >
    { charValue = escapeChar(); }
|
    < (~["", "\\"] >
    { charValue = image.charAt( image.length()-1 ); }
}

<WithinBackCharLiteral> TOKEN:
{
    < BACK_CHAR_LITERAL: "">
    { literalValue = new Character( charValue ); }; DEFAULT
}

<WithinStringLiteral> MORE:
{
    < STRING_ESC: <ESC> >
    { stringBuffer.append( escapeChar() ); }
|
    < (~["", "\\"] >
    { stringBuffer.append( image.charAt(image.length()-1) ); }
}

<WithinStringLiteral> TOKEN:
{
    <STRING_LITERAL: "\"">
    { literalValue = new String( stringBuffer ); }
    : DEFAULT
}

/**

```

* Integer or real Numeric literal, whose object value is stored in the token manager's

* "literalValue" field.

*/

TOKEN:

```
{
  < INT_LITERAL:
    ( "0" ([ "0"- "7" ])* | [ "1"- "9" ] ([ "0"- "9" ])* | "0" [ "x", "X" ] ([ "0"- "9", "a"- "f", "A"- "F" ])+ )
    ([ "l", "L", "h", "H" ])?
  >
  { literalValue =
    makeInt(); }
|
  < FLT_LITERAL:
    ( <DEC_FLT> (<EXPONENT>)? (<FLT_SUFF>)?
    | <DEC_DIGITS> <EXPONENT> (<FLT_SUFF>)?
    | <DEC_DIGITS> <FLT_SUFF>
    )
  >
  { literalValue = makeFloat(); }

| < #DEC_FLT: ([ "0"- "9" ]+ "." ([ "0"- "9" ])* | "." ([ "0"- "9" ])+ >
| < #DEC_DIGITS: ([ "0"- "9" ])+ >
| < #EXPONENT: [ "e", "E" ] ([ "+", "-" ])? ([ "0"- "9" ])+ >
| < #FLT_SUFF: [ "d", "D", "f", "F", "b", "B" ] >
}
```

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* /opt/cola/permits/1243595686_1639650965.04/0/ognl-3-1-29-sources-jar/ognl/OgnlInvokePermission.java

1.1638 bouncycastle-fips 1.0.2.3

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 * </p>
 */
```

1.1639 findbugs-jsr305 3.0.2

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1.1640 compiler 0.8.15

1.1641 guice 4.2.3

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1.1643 txw2 20110809

1.1644 babel-register 6.26.0

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1.1645 microsoft-identitymodel-tokens-saml

6.26.0

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%% winjs version 4.4.0 (<https://github.com/winjs/winjs>)
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1.1646 deglob 2.1.1

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1.1647 snake-yaml 1.32

1.1647.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1415956899_1663142743.414911/0/snakeyaml-1-32-jar/META-INF/maven/org.yaml/snakeyaml/pom.xml

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Manifest-Version: 1.0

Automatic-Module-Name: org.yaml.snakeyaml

Bnd-LastModified: 1662999552851

Build-Jdk-Spec: 1.8

Bundle-Description: YAML 1.1 parser and emitter for Java

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: SnakeYAML

Bundle-SymbolicName: org.yaml.snakeyaml

Bundle-Version: 1.32.0

Created-By: Apache Maven Bundle Plugin 5.1.8

Export-Package: org.yaml.snakeyaml;version="1.32",org.yaml.snakeyaml.comments;version="1.32",org.yaml.snakeyaml.composer;version="1.32",org.yaml.snakeyaml.constructor;version="1.32",org.yaml.snakeyaml.emitter;version="1.32",org.yaml.snakeyaml.env;version="1.32",org.yaml.snakeyaml.error;version="1.32",org.yaml.snakeyaml.events;version="1.32",org.yaml.snakeyaml.extensions.compactnotation;version="1.32",org.yaml.snakeyaml.introspector;version="1.32",org.yaml.snakeyaml.nodes;version="1.32",org.yaml.snakeyaml.parser;version="1.32",org.yaml.snakeyaml.reader;version="1.32",org.yaml.snakeyaml.representer;version="1.32",org.yaml.snakeyaml.resolver;version="1.32",org.yaml.snakeyaml.scanner;version="1.32",org.yaml.snakeyaml.serializer;version="1.32",org.yaml.snakeyaml.tokens;version="1.32",org.yaml.snakeyaml.util;version="1.32"

Import-Package: org.yaml.snakeyaml;version="[1.32,2)",org.yaml.snakeyaml.comments;version="[1.32,2)",org.yaml.snakeyaml.composer;version="[1.32,2)",org.yaml.snakeyaml.emitter;version="[1.32,2)",org.yaml.snakeyaml.error;version="[1.32,2)",org.yaml.snakeyaml.events;version="[1.32,2)",org.yaml.snakeyaml.introspector;version="[1.32,2)",org.yaml.snakeyaml.nodes;version="[1.32,2)",org.yaml.snakeyaml.parser;version="[1.32,2)",org.yaml.snakeyaml.reader;version="[1.32,2)",org.yaml.snakeyaml.resolver;version="[1.32,2)",org.yaml.snakeyaml.scanner;version="[1.32,2)",org.yaml.snakeyaml.serializer;version="[1.32,2)",org.yaml.snakeyaml.tokens;version="[1.32,2)"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-6.3.1.202206071316

Found in path(s):

* /opt/cola/permits/1415956899_1663142743.414911/0/snakeyaml-1-32-jar/META-INF/MANIFEST.MF

1.1648 @webassemblyjs/wast-parser 1.9.0

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1.1649 schema-utils 3.1.1

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1.1650 base64-js 1.5.1

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1.1651 jackson-jaxrs-base 2.13.2

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1.1652 jackson-xc 2.12.7

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1.1653 strip-eof 1.0.0

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1.1654 html-agility-pack 1.0.0.0

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1.1655 log-symbols 2.2.0

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1.1656 google-protobuf 0.0.0.0

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Maven packaging:

Gregory Kick <gak@google.com>

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- * Small patch to handle trailing slashes in --proto_path flag.

Johan Euphrosine <proppy@aminche.com>

- * Small patch to fix Python CallMethod().

Ulrich Kunitz <kune@deine-taler.de>

- * Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>

- * VI syntax highlighting tweaks.
- * Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>

- * Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>

- * Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>

- * Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

- * Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

- * Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>

- * MS Visual Studio error format option.
- * Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>

- * gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- * Added generation of field number constants.

Wink Saville <wink@google.com>

- * Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

- * Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

- * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

- * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- * HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- * Detect whether zlib is new enough in configure script.

* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

* Optimize Java serialization code when writing a small message to a stream.

* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.

* Clean up some Java warnings.

* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

* Fixed detection of sched_yield on Solaris.

* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

* Fixed minor IBM xLC compiler build issues

* Added atomicops for AIX (POWER)

Nipunn Koorapati <nipunn1313@gmail.com>

* Provide a type alias field ValueType on EnumTypeWrapper

* Match service argument names to abstract interface

1.1657 guice 2.0

1.1657.1 Available under license :

```
.
'Q
RS &T &U &V
RW
&X &Y
'Z
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Qp
qrs
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vxy
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Tablethis
```

```

PermissionInnerClasses3Lorg/apache/tools/ant/types/Permissions$Permission;setClass(Ljava/lang/String;)VaClassg
etClassName(Ljava/lang/String;setNameaNamegetName
setActions
getActionsmatches(Ljava/security/Permission;)ZpermLjava/security/Permission;asssizeIparseActions#(Ljava/lang/St
ring;)Ljava/util/Set;resulttkLjava/util/StringTokenizer;itemtoString
SourceFilePermissions.java./z{;()*+)}|}HI,-
~>;*@;F}java/util/HashSetjava/util/StringTokenizer,.;java/lang/StringBufferPermission: ("",
""N;1org/apache/tools/ant/types/Permissions$Permissionjava/lang/Objectjava/lang/Stringtrimlength()IgetClass()Lja
va/lang/Class;java/lang/Classequals(Ljava/lang/Object;)ZendsWith(Ljava/lang/String;)Zjava/security/Permission
substring(II)Ljava/lang/String;
startsWith
java/util/Set removeAll(Ljava/util/Collection;)Z'(Ljava/lang/String;Ljava/lang/String;)V nextTokenadd
hasMoreTokens()Zappend,(Ljava/lang/String;)Ljava/lang/StringBuffer,;(Ljava/lang/Object;)Ljava/lang/StringBuffer
;&org/apache/tools/ant/types/Permissions!&'()*+),-
./0/*1236780A *+1
2 36 9);;0/*1236<80A *+1
2 36 =>;0/*1236?80V*++**+1236,)@;0/*1236AB0*+
*<*
+**d*+***+M,>, *W,1>&ACQ S%Z&c'j(u)+/2*36CDcE-jFGHI0;YMY+N-;W-,1"789:;)<299?24;36;,)3J-
(KLM)N;0^4Y * ! * " *#$ % 1F2436OP5
&w4

```

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![node version](https://img.shields.io/node/v/jest-pnp-resolver.svg)(https://www.npmjs.com/package/jest-pnp-resolver)
```

This plugin is also available for Rollup ([rollup-plugin-pnp-resolve](https://github.com/arcanis/rollup-plugin-pnp-resolve)), TypeScript ([ts-pnp](https://github.com/arcanis/ts-pnp)), and Webpack ([pnp-webpack-plugin](https://github.com/arcanis/pnp-webpack-plugin))

Installation

```
...
yarn add -D jest-pnp-resolver
...
```

Usage

As of `jest@^24.4.0` you don't need to manually add this package anymore. The default resolver will already use PnP.

Simply add the resolver to your configuration. For example, a minimal `jest.config.js` would be as such:

```
```js
module.exports = {
 resolver: require.resolve('jest-pnp-resolver')
};
```
```

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1073752908_1595443600.67/0/jest-pnp-resolver-1-2-2-tgz/package/README.md

1.1659 jersey 1.19.4

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1.1661 ajv-keywords 3.5.2

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1.1662 portfinder 1.0.28

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1.1663 realpath-native 2.0.0

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1.1667 media-typer 0.3.0

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1.1672 jetty-continuation 9.4.48.v20220622

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javafx.security.auth.message

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* org.eclipse.jetty.orbit:javafx.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1673 xtend 4.0.2

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1.1675 vendors 1.0.4

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1.1676 @webassemblyjs/helper-wasm-section 1.9.0

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1.1680 timers-browserify 2.0.12

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1.1681 css-select-base-adapter 0.1.1

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1.1682 hairballs 0.3.3

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1.1683 agent-base 2.1.1

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agent-base

=====

Turn a function into an `http.Agent` instance

[![Build Status](https://travis-ci.org/TooTallNate/node-agent-base.svg?branch=master)](https://travis-ci.org/TooTallNate/node-agent-base)

This module provides an `http.Agent` generator. That is, you pass it an async callback function, and it returns a new `http.Agent` instance that will invoke the given callback function when sending outbound HTTP requests.

Some subclasses:

Here's some more interesting uses of `agent-base`.

Send a pull request to list yours!

* [`http-proxy-agent`][`http-proxy-agent`]: An HTTP(s) proxy `http.Agent` implementation for HTTP endpoints

- * [`https-proxy-agent`][`https-proxy-agent`]: An HTTP(s) proxy `http.Agent` implementation for HTTPS endpoints
- * [`pac-proxy-agent`][`pac-proxy-agent`]: A PAC file proxy `http.Agent` implementation for HTTP and HTTPS
- * [`socks-proxy-agent`][`socks-proxy-agent`]: A SOCKS (v4a) proxy `http.Agent` implementation for HTTP and HTTPS

Installation

Install with `npm`:

```
``` bash
$ npm install agent-base
```
```

Example

Here's a minimal example that creates a new `net.Socket` connection to the server for every HTTP request (i.e. the equivalent of `agent: false` option):

```
``` js
var net = require('net');
var tls = require('tls');
var url = require('url');
var http = require('http');
var agent = require('agent-base');

var endpoint = 'http://nodejs.org/api/';
var opts = url.parse(endpoint);

// This is the important part!
opts.agent = agent(function (req, opts, fn) {
 var socket;
 // `secureEndpoint` is true when using the https module
 if (opts.secureEndpoint) {
 socket = tls.connect(opts);
 } else {
 socket = net.connect(opts);
 }
 fn(null, socket);
});

// Everything else works just like normal...
http.get(opts, function (res) {
 console.log("response" event!", res.headers);
 res.pipe(process.stdout);
});
```
```

```
});  
---
```

API

```
---
```

```
## Agent(Function callback) http.Agent
```

Creates a base `http.Agent` that will execute the callback function `callback` for every HTTP request that it is used as the `agent` for. The callback function is responsible for creating a `stream.Duplex` instance of some kind that will be used as the underlying socket in the HTTP request.

The callback function should have the following signature:

```
### callback(http.ClientRequest req, Object options, Function cb) undefined
```

The `ClientRequest req` can be accessed to read request headers and the path, etc. The `options` object contains the options passed to the `http.request()`/`https.request()` function call, and is formatted to be directly passed to `net.connect()`/`tls.connect()`, or however else you want a Socket to be created. Pass the created socket to the callback function `cb` once created, and the HTTP request will continue to proceed.

If the `https` module is used to invoke the HTTP request, then the `secureEndpoint` property on `options` will be set to `true`.

License

```
-----
```

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[http-proxy-agent]: <https://github.com/TooTallNate/node-http-proxy-agent>

[https-proxy-agent]: <https://github.com/TooTallNate/node-https-proxy-agent>

[pac-proxy-agent]: <https://github.com/TooTallNate/node-pac-proxy-agent>

[socks-proxy-agent]: <https://github.com/TooTallNate/node-socks-proxy-agent>

Found in path(s):

* /opt/cola/permits/1020252306_1663033246.621655/0/agent-base-2-1-1-5-tgz/package/README.md

1.1684 jest-runner 25.5.4

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1.1685 metrics-annotation 4.1.31

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.annotation
Build-Jdk-Spec: 1.8
Bundle-Description: A dependency-less package of just the annotations used by other Metrics modules.
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>
Bundle-ManifestVersion: 2
Bundle-Name: Annotations for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.annotation
Bundle-Version: 4.1.31
Created-By: Apache Maven Bundle Plugin 5.1.4
Export-Package: com.codahale.metrics.annotation;version="4.1.31"
Implementation-Title: Annotations for Metrics
Implementation-Version: 4.1.31
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1304518996_1649672863.66/0/metrics-annotation-4-1-31-jar/META-INF/MANIFEST.MF

1.1686 text-table 0.2.0

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1.1687 guava-listenablefuture-only 9999.0-empty-to-avoid-conflict-with-guava

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1.1692 jetty-io 9.4.48.v20220622

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

- org.mortbay.jasper:apache-jsp
- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.1693 react-from-facebook 15.5.4

1.1693.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1288263112_1678982609.7876058/0/react-min-js-zip/react.min.js

1.1694 rxjava 1.1.2

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* Modified from <http://www.javacodegeeks.com/2013/08/simple-and-lightweight-pool-implementation.html>

*/

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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/ObjectPool.java

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core/src/main/java/org/jctools/queues/atomic/SpscLinkedAtomicQueue.java

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/atomic/SpscLinkedAtomicQueue.java

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* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/SpmcArrayQueue.java>

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/unsafe/SpmcArrayQueue.java

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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert `UnsafeAccess.isUnsafeAvailable() == true`

Much of the code in this package comes from or is inspired by the JCTools project:

<https://github.com/JCTools/JCTools>

JCTools has now published artifacts (<https://github.com/JCTools/JCTools/issues/17>) so RxJava could add JCTools as a "shadow" dependency (<https://github.com/ReactiveX/RxJava/issues/1735>).

RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

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Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSkipLast.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorToMultimap.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDoOnRequest.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/subscriptions/CompositeSubscription.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/subjects/SubjectSubscriptionManager.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSkipLastTimed.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeSingle.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDoOnSubscribe.java


```
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/operators/OperatorSwitchIfEmpty.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/operators/OperatorDoOnUnsubscribe.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/schedulers/CachedThreadScheduler.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/observables/BlockingObservable.java
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core/src/main/java/org/jctools/queues/LinkedListNode.java
*/
```

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```
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/util/atomic/LinkedListNode.java
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libraries/source/browse/guava/src/com/google/common/annotations/Beta.java
```

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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/annotations/Experimental.java

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*/

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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/unsafe/BaseLinkedQueue.java

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*/

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*/

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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/atomic/MpscLinkedAtomicQueue.java

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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-

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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-

jar/rx/internal/util/SynchronizedSubscription.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-

jar/rx/internal/util/UtilityFunctions.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/Observable.java

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jar/rx/BackpressureOverflow.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-

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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/Single.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
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*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/util/atomic/SpSCAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/util/atomic/SpSCExactAtomicArrayQueue.java
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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeConcatMap.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribePublishMulticast.java

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jar/rx/internal/producers/SingleDelayedProducer.java
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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/producers/ProducerObserverArbiter.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/producers/SingleProducer.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/producers/QueuedValueProducer.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/operators/BackpressureUtils.java

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* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java>
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/util/atomic/BaseLinkedAtomicQueue.java

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core/src/main/java/org/jctools/queues/SpSCArrayQueue.java
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/util/unsafe/SpSCArrayQueue.java
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/**
 * This plugin class provides 2 ways to customize {@link Scheduler} functionality
 * 1. You may redefine entire schedulers, if you so choose. To do so, override
 * the 3 methods that return Scheduler (io(), computation(), newThread()).
 * 2. You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler. The system-
 * supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
 * Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
 * modify Scheduler functionality without redefining Schedulers wholesale.
 */
```

*
* Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
* <p>
* See { @link RxJavaPlugins } or the RxJava GitHub Wiki for information on configuring plugins:
* https://github.com/ReactiveX/RxJava/wiki/Plugins.
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/plugins/RxJavaSchedulersHook.java
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* Original location: [https://github.com/JCTools/JCTools/blob/master/jctools-
core/src/main/java/org/jctools/queues/MpmcArrayQueue.java](https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/MpmcArrayQueue.java)
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/util/unsafe/MpmcArrayQueue.java
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* Originally from <https://code.google.com/p/guava-libraries/source/browse/guava/src/com/google/common/annotations/Beta.java>
*/

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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/ScalarSynchronousSingle.java

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* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java>

*/

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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/atomic/SpscUnboundedAtomicArrayQueue.java

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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/SingleSubscriber.java

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*/

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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/unsafe/QueueProgressIndicators.java

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core/src/main/java/org/jctools/queues/SpSCLinkedQueue.java
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```

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*/opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
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*/opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Action.java
*/opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Func0.java
*/opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/operators/OperatorTakeLast.java
*/opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/operators/OperatorElementAt.java
*/opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/operators/OperatorTimeoutBase.java
*/opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/observers/TestSubscriber.java
*/opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/observers/Observers.java
```


- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/subscriptions/SerialSubscription.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/NotificationLite.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorIgnoreElements.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Func5.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorMapNotification.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorOnBackpressureBuffer.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/BlockingOperatorToFuture.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeRedo.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorIterable.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSkipWhile.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorOnBackpressureDrop.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/TakeLastQueueProducer.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Action5.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeIterable.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorArray.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/subscriptions/MultipleAssignmentSubscription.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/CachedObservable.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDoOnEach.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSkip.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/plugins/RxJavaObservableExecutionHook.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/exceptions/OnErrorNotImplementedException.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDematerialize.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/Producer.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/ActionN.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSequenceEqual.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorToObservableSortedList.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTakeLastTimed.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Func8.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/observables/SyncOnSubscribe.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Func4.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/package-info.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/BackpressureDrainManager.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/Subscription.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/schedulers/ImmediateScheduler.java
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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Func9.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Action3.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeFromIterable.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorObserveOn.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/subscriptions/BooleanSubscription.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/FuncN.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/observables/ConnectableObservable.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/observers/TestObserver.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/exceptions/OnErrorThrowable.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/subscriptions/RefCountSubscription.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeConcatArray.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/observables/GroupedObservable.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/subjects/TestSubject.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/SubscriptionList.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Action1.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/subjects/BehaviorSubject.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/schedulers/Stamped.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorAll.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/IndexedRingBuffer.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/schedulers/EventLoopsScheduler.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeUsing.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/exceptions/OnCompletedFailedException.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/exceptions/UnsubscribeFailedException.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/Completable.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/observers/Subscribers.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTake.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorThrottleFirst.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorAny.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Func7.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/exceptions/OnErrorFailedException.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorCast.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorReplay.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTakeUntil.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Action9.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSubscribeOn.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTakeWhile.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeJoin.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeConcatIterable.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/BlockingOperatorLatest.java
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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Action7.java
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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Action4.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorOnErrorResumeNextViaFunction.java
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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorScan.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorMerge.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Func1.java
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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeMerge.java
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* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorZipIterable.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Action2.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Func3.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/observers/SafeSubscriber.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorMap.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/BlockingOperatorNext.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/subjects/Subject.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeTimeout.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/schedulers/GenericScheduledExecutorService.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorToMap.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorUnsubscribeOn.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/subscriptions/Subscriptions.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorToObservableList.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeArray.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeGroupJoin.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/plugins/RxJavaObservableExecutionHookDefault.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorFilter.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/schedulers/TimeInterval.java
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info.java

- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/Observer.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/exceptions/Exceptions.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeFromArray.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/plugins/RxJavaErrorHandler.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/BlockingOperatorMostRecent.java
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- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeToObservableFuture.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorGroupBy.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/observers/SerializedSubscriber.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeAutoConnect.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/exceptions/CompositeException.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/plugins/RxJavaPlugins.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/UnicastSubject.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorMaterialize.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/Notification.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTimeInterval.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/RxRingBuffer.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeRange.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/exceptions/MissingBackpressureException.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/Subscriber.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/schedulers/NewThreadScheduler.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorAsObservable.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Functions.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeDefer.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/LinkedList.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/subjects/AsyncSubject.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/BufferUntilSubscriber.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/schedulers/Schedulers.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/subjects/ReplaySubject.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/subjects/PublishSubject.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSingle.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Function.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Action8.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTimeoutWithSelector.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorZip.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSerialize.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/observers/SerializedObserver.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTakeUntilPredicate.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Func6.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeConcat.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/functions/Action6.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/Scheduler.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/schedulers/SleepingAction.java

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- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/schedulers/ExecutorScheduler.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeDelaySubscription.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSwitch.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/atomic/SpScLinkedListArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDelayWithSelector.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorBufferWithStartEndObservable.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/RxThreadFactory.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDistinct.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeTimerPeriodically.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeTimerOnce.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/schedulers/NewThreadWorker.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorMapPair.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDebounceWithTime.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeRefCount.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/FrontPadding.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorWindowWithStartEndObservable.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorWindowWithSize.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSampleWithObservable.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorEagerConcatMap.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTakeTimed.java
- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorBufferWithSingleObservable.java
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- * /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/schedulers/ScheduledAction.java

* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorBufferWithTime.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorPublish.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSampleWithTime.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorWindowWithTime.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDebounceWithSelector.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSkipTimed.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorWithLatestFrom.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorWindowWithObservableFactory.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorOnBackpressureLatest.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorWindowWithObservable.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorRetryWithPredicate.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSkipUntil.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorBufferWithSize.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/PlatformDependent.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/SynchronizedQueue.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeDelaySubscriptionWithSelector.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDoAfterTerminate.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorMulticast.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeDelaySubscriptionOther.java
* /opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-jar/rx/internal/util/RxJavaPluginUtils.java

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* Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
core/src/main/java/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
*/
```

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```
*/opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/util/atomic/AtomicReferenceArrayQueue.java
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*/
/*
* This mechanism for getting UNSAFE originally from:
*
* Original License: https://github.com/JCTools/JCTools/blob/master/LICENSE
* Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
core/src/main/java/org/jctools/util/UnsafeAccess.java
*/
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1041687962_1591242739.53/0/rxjava-1-1-2-sources-
jar/rx/internal/util/unsafe/UnsafeAccess.java
```

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1.1705 sindresorhus/normalize-url 1.9.1

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1.1709 eslint-html-reporter 0.7.4

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1.1710 http-deceiver 1.2.7

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```
# HTTP Deceiver
```

```
![Build Status](https://secure.travis-ci.org/indutny/http-deceiver.png)(http://travis-ci.org/indutny/http-deceiver)
![NPM version](https://badge.fury.io/js/http-deceiver.svg)(http://badge.fury.io/js/http-deceiver)
```

```
Deceive!
```

```
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```

```
Found in path(s):
```

```
* /opt/cola/permits/1011005412_1622035337.26/0/http-deceiver-1-2-7-zip/http-deceiver-1.2.7/README.md
```

1.1711 postcss-calc 5.3.1

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1.1712 extsprintf 1.3.0

1.1713 browserify-rsa 4.1.0

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*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1046144876_1589880063.19/0/feign-slf4j-10-7-4-sources-jar/feign/slf4j/Slf4jLogger.java

1.1715 @types/prettier 1.19.1

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1.1716 jest-matcher-utils 25.5.0

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1.1717

microsoft.netcore.universalwindowsplatform

6.2.14

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1.1719 jersey-container-servlet-core 2.35

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1.1720 jul-to-slf4j 1.7.36

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1.1721 nodeca-argparse 1.0.10

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A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization

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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
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*

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* @version 3.0 (December 2000)

*

* Optimised ANSI C code for the Rijndael cipher (now AES)

*

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1.1731 tunnel-agent 0.6.0

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1.1732 nan 2.15.0

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1.1733 jest-resolve-dependencies 25.5.4

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1.1734 annotations 13.0

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```

Found in path(s):

```
* /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-
jar/org/intellij/lang/annotations/Subst.java
```

* /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/intellij/lang/annotations/Pattern.java
* /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/intellij/lang/annotations/Language.java
* /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/intellij/lang/annotations/PrintFormat.java
* /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/intellij/lang/annotations/RegExp.java
* /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/intellij/lang/annotations/Identifier.java

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* /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/jetbrains/annotations/TestOnly.java

* /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/intellij/lang/annotations/MagicConstant.java

* /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/intellij/lang/annotations/JdkConstants.java

* /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/jetbrains/annotations/NotNull.java

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- * /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/jetbrains/annotations/NonNls.java
- * /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/jetbrains/annotations/Nullable.java
- * /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/jetbrains/annotations/Nls.java
- * /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/jetbrains/annotations/PropertyKey.java

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- * /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/jetbrains/annotations/Contract.java

1.1735 to-arraybuffer 1.0.1

1.1736 postcss-html 0.12.0

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1.1737 node-source-map-support 0.5.20

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1.1738 standard-loader 6.0.1

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1.1739 types-json5 0.0.29

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1.1740 accessors-smart 2.4.8

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Manifest-Version: 1.0
Bnd-LastModified: 1644737816481
Build-Jdk: 11.0.14
Built-By: uriel
Bundle-Description: Java reflect give poor performance on getter setter
an constructor calls, accessors-smart use ASM to speed up those calls.
Bundle-DocURL: <https://urielch.github.io/>
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>
Bundle-ManifestVersion: 2
Bundle-Name: accessors-smart
Bundle-SymbolicName: net.minidev.accessors-smart
Bundle-Vendor: Chemouni Uriel
Bundle-Version: 2.4.8
Created-By: Apache Maven Bundle Plugin
Export-Package: net.minidev.asm;uses:="org.objectweb.asm";version="2.4.8",net.minidev.asm.ex;version="2.4.8"
Import-Package: org.objectweb.asm;version="[8.0,10)",net.minidev.asm.ex
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1281455933_1646319064.35/0/accessors-smart-2-4-8-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/1281455933_1646319064.35/0/accessors-smart-2-4-8-jar/META-INF/maven/net.minidev/accessors-smart/pom.xml

1.1741 backbone-js-framework 2012

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Backbone Poller 0.2.8

<https://github.com/uzikilon/backbone-poller>

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Found in path(s):

* /opt/cola/permits/1288263040_1678982608.1154838/0/backbone-poller-js-1-zip/backbone.poller.js

1.1742 json-path 2.4.0

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1.1743 jest-validate 25.5.0

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1.1744 google-protobuf 1.0.0.0

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- * Small patch to fix Python CallMethod().

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- * Small optimizations to Python serialization.

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- * VI syntax highlighting tweaks.
- * Fix compiler to not make output executable.

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- * Heuristic detection of sub-messages when printing unknown fields in text format.

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- * Added @Override annotation to generated Java code where appropriate.

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- * Tru64 support.

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- * Solaris 10 + Sun Studio fixes.

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- * Slicing support for repeated scalar fields for the Python API.

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- * MS Visual Studio error format option.
- * Detect unordered_map in stl_hash.m4.

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- * gzip/zlib I/O support.

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- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- * Added generation of field number constants.

Wink Saville <wink@google.com>

- * Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

- * Small patch improving performance of in Python serialization.

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- * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

- * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- * HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only

- once per string per serialization call.
 - * Clean up some Java warnings.
 - * Fix bug with permanent callbacks that delete themselves when run.
- Michael Kucharski <m.kucharski@gmail.com>
- * Added CodedInputStream.getTotalBytesRead().
- Kacper Kowalik <xarthisius.kk@gmail.com>
- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.
- William Orr <will@worrbase.com>
- * Fixed detection of sched_yield on Solaris.
 - * Added atomicops for Solaris
- Andrew Paprocki <andrew@ishiboo.com>
- * Fixed minor IBM xLC compiler build issues
 - * Added atomicops for AIX (POWER)
- Nipunn Koorapati <nipunn1313@gmail.com>
- * Provide a type alias field ValueType on EnumTypeWrapper
 - * Match service argument names to abstract interface

1.1745 httpcomponents-client-cache 4.5.10

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1.1746 types-yargs-parser 20.2.1

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1.1747 @webassemblyjs/wast-printer 1.9.0

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* /opt/cola/permits/1556132317_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/io/DOMReader.java
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1.1749 sockjs-node 0.3.21

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1.1750 jcl-over-slf4j 1.7.30

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jar/org/apache/commons/logging/LogFactory.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/SLF4JLogFactory.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/Log.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
```

jar/org/apache/commons/logging/impl/SLF4JLocationAwareLog.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-jar/org/apache/commons/logging/impl/SLF4JLog.java
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* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-jar/META-INF/maven/org.slf4j/jcl-over-slf4j/pom.xml
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1.1751 @types/graceful-fs 4.1.5

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1.1752 libjpeg 4A

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README for release 6b of 27-Mar-1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

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This file contains the following sections:

- OVERVIEW General description of JPEG and the IJG software.
- LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
- REFERENCES Where to learn more about JPEG.
- ARCHIVE LOCATIONS Where to find newer versions of this software.
- RELATED SOFTWARE Other stuff you should get.

FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderrules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting

the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot

legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data

Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library

uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet address 192.48.96.9). The most recent released version can always be found there in directory `graphics/jpeg`. This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only <ftp.uu.net> is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the <ftp.uu.net> release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups `comp.graphics.misc`, `news.answers`, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other `news.answers` archive sites, including the official `news.answers` archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making `cjpeg/djpeg` considerably more useful. The latest

version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

=====

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.1753 metrics 3.2.5

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- * /opt/cola/permits/1302729688_1649355402.35/0/metrics-3-2-5-sources-1-jar/com/tomtom/speedtools/metrics/MetricsTimeSlot.java
- * /opt/cola/permits/1302729688_1649355402.35/0/metrics-3-2-5-sources-1-jar/com/tomtom/speedtools/metrics/MetricsData.java
- * /opt/cola/permits/1302729688_1649355402.35/0/metrics-3-2-5-sources-1-jar/com/tomtom/speedtools/metrics/MultiMetricsCollector.java
- * /opt/cola/permits/1302729688_1649355402.35/0/metrics-3-2-5-sources-1-jar/com/tomtom/speedtools/metrics/MetricsCollector.java

1.1754 jackson-xc 1.9.13

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1.1755 shindig-social-api 2.0.2

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1.1756 istanbul-lib-source-maps 4.0.0

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1.1757 jna-platform 5.11.0

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1.1758 js-yaml-native-js-port-of-pyyaml 3.14.1

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1.1759 uglifyjs-webpack-plugin v2.2.0

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1.1760 verror 1.10.0

1.1761 thrift 0.13.0

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1.1762 integration-common 25.2.0

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```

Found in path(s):

```
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/log/BufferedIntLogger.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/log/SilentIntLogger.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/executable/ExecutableRunnerException.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/function/ThrowingSupplier.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/wait/WaitJobConfig.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/util/MaskedStringFieldToStringBuilder.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/util/NameVersion.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/log/Slf4jIntLogger.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/util/EnumUtils.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/util/ExcludedIncludedWildcardFilter.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/util/IntegrationEscapeUtil.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/log/LogLevel.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/executable/DryRunExecutableRunner.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-  
jar/com/synopsys/integration/util/NoThreadExecutorService.java  
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
```

jar/com/synopsys/integration/executable/ExecutableStreamThread.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/util/OperatingSystemType.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/builder/IntegrationBuilder.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/util/ResourceUtil.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/function/ThrowingConsumer.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/util/IntEnvironmentVariables.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/builder/BuilderPropertyKey.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/exception/IntegrationException.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/log/PrintStreamIntLogger.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/executable/ExecutableRunner.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/exception/IntegrationTimeoutException.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/builder/BuilderProperties.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/function/ThrowingFunction.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/util/ExcludedIncludedFilter.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/function/ThrowingBiFunction.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/exception/IntegrationArgumentException.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/util/HostNameHelper.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/wait/WaitJobCompleter.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/log/IntLogger.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/util/CleanupZipExpander.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/executable/ExecutableOutput.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/executable/Executable.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/wait/WaitJobCondition.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/datastructure/SetMap.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-

```
jar/com/synopsys/integration/builder/Buildable.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/wait/BooleanWaitJobCompleter.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/log/Slf4jPrefixIntLogger.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/util/CommonZipExpander.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/executable/ProcessBuilderRunner.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/wait/WaitJob.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/util/Stringable.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/util/TokenizerUtils.java
* /opt/cola/permits/1225964322_1636479350.57/0/integration-common-25-2-0-sources-
jar/com/synopsys/integration/builder/BuilderStatus.java
```

1.1763 jackson-mapper-asl 1.9.13

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*/
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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078286973_1597285663.32/0/jackson-mapper-asl-1-9-13-sources-2-
jar/org/codehaus/jackson/map/MappingJsonFactory.java
```

1.1764 lines-and-columns 1.1.6

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1.1765 websocket-extensions-node 0.1.4

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1.1766 babeljs 6.26.3

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1.1768 hibernate-commons-annotations

5.1.2.Final

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1.1769 cli-cursor 1.0.2

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1.1770 duplexer2 0.0.2

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1.1771 caseless 0.12.0

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1.1772 logback-access 1.2.11

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1.1773 end-of-stream 1.4.4

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1.1774 kotlin 1.6.10

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```
{"version":3,"file":"kotlin.js","sources":["wrapper.js","js/arrayUtils.js","js/callableReferenceUtils.js","js/conversions.js","js/core.js","js/long.js","js/markerFunctions.js","js/misc.js","js/polyfills.js","js/rtti.js","runtime/arrayUtils.kt","runtime/Enum.kt","primitiveCompanionObjects.kt","common/src/generated/_Arrays.kt","common/src/generated/_Ranges.kt","unsigned/src/kotlin/UByte.kt","unsigned/src/kotlin/UInt.kt","unsigned/src/kotlin/UShort.kt","builtin-sources/Ranges.kt","src/kotlin/collections/Collections.kt","src/kotlin/collections/Maps.kt","src/kotlin/collections/Sets.kt","src/kotlin/text/StringNumberConversions.kt","src/kotlin/time/Duration.kt","unsigned/src/kotlin/UnsignedUtils.kt","src/kotlin/collections/Iterables.kt","src/kotlin/collections/Sequences.kt","src/kotlin/util/Preconditions.kt","js/src/generated/_ArraysJs.kt","src/kotlin/comparisons/Comparisons.kt","src/kotlin/util/Standard.kt","js/src/generated/_ComparisonsJs.kt","unsigned/src/kotlin/ULong.kt","common/src/generated/_Collections.kt","js/src/kotlin/collections.kt","src/kotlin/collections/Iterators.kt","common/src/generated/_Comparisons.kt","common/src/generated/_Maps.kt","common/src/generated/_OneToManyTitlecaseMappings.kt","js/src/kotlin/text/char.kt","js/src/kotlin/text/string.kt","src/kotlin/text/Char.kt","src/kotlin/CharCode.kt","common/src/generated/_Sequences.kt","common/src/generated/_Sets.kt","common/src/generated/_Strings.kt","src/kotlin/text/Strings.kt","unsigned/src/kotlin/UByteArray.kt","unsigned/src/kotlin/UIntArray.kt","unsigned/src/kotlin/ULongArray.kt","unsigned/src/kotlin/UShortArray.kt","common/src/generated/_UArrays.kt","common/src/generated/_UCollections.kt","common/src/generated/_UComparisons.kt","common/src/generated/_URanges.kt","common/src/generated/_USequences.kt","common/src/kotlin/ExceptionsH.kt","common/src/kotlin/JsAnnotationsH.kt","common/src/kotlin/ioH.kt","builtin-sources/Collections.kt","builtin-sources/Iterators.kt","builtin-sources/ProgressionIterators.kt","builtin-sources/Progressions.kt","builtin-sources/Range.kt","builtin-sources/Unit.kt","builtin-sources/annotation/Annotations.kt","builtin-sources/internal/InternalAnnotations.kt","builtin-sources/internal/progressionUtil.kt","src/kotlin/builtins.kt","src/kotlin/jsTypeOf.kt","src/kotlin/kotlin.kt","src/kotlin/CharCode_js-v1.kt","src/kotlin/coroutines/CoroutineImpl.kt","src/kotlin/util/Result.kt","src/kotlin/coroutines/Continuation.kt","src/kotlin/coroutines/intrinsics/IntrinsicsJs.kt","src/kotlin/currentBeMisc.kt","src/kotlin/exceptions.kt","src/kotlin/jsOperators.kt","src/kotlin/math_js-v1.kt","src/kotlin/numbers_js-v1.kt","src/kotlin/reflection_js-v1.kt","src/kotlin/text/numberConversions_js-v1.kt","js/src/generated/_CharCategories.kt","js/src/generated/_CollectionsJs.kt","js/src/generated/_DigitChars.kt","js/src/generated/_LetterChars.kt","js/src/generated/_OtherLowercaseChars.kt","js/src/generated/_OtherUppercaseChars.kt","js/src/generated/_StringsJs.kt","js/src/generated/_TitlecaseMappings.kt","js/src/generated/_UArraysJs.kt","js/src/generated/_WhitespaceChars.kt","js/src/kotlin/Comparator.kt","js/src/kotlin/annotations.kt","js/src/kotlin/annotationsJVM.kt","js/src/kotlin/collections/AbstractMutableCollection.kt","js/src/kotlin/collections/AbstractMutableList.kt","js/src/kotlin/collections/AbstractMutableMap.kt","js/src/kotlin/collections/AbstractMutableSet.kt","js/src/kotlin/collections/ArrayList.kt","js/src/kotlin/collections/ArraySorting.kt","js/src/kotlin/collections/ArraysJs.kt","js/src/k
```


otlin/collections/EqualityComparator.kt", "js/src/kotlin/collections/HashMap.kt", "js/src/kotlin/collections/HashSet.kt", "js/src/kotlin/collections/InternalHashMap.kt", "js/src/kotlin/collections/InternalMap.kt", "js/src/kotlin/collections/InternalStringMap.kt", "js/src/kotlin/collections/LinkedHashMap.kt", "js/src/kotlin/collections/LinkedHashSet.kt", "js/src/kotlin/concurrent.kt", "js/src/kotlin/console.kt", "js/src/kotlin/coroutines/SafeContinuationJs.kt", "js/src/kotlin/coroutines/cancellation/CancellationException.kt", "js/src/kotlin/coroutines/js/internal/EmptyContinuation.kt", "js/src/kotlin/date.kt", "js/src/kotlin/dom/Builders.kt", "js/src/kotlin/dom/Classes.kt", "js/src/kotlin/dom/Dom.kt", "js/src/kotlin/dom/EventListener.kt", "js/src/kotlin/dom/ItemArrayLike.kt", "js/src/kotlin/dom/Mutations.kt", "js/src/kotlin/dynamic.kt", "js/src/kotlin/exceptionUtils.kt", "js/src/kotlin/grouping.kt", "src/kotlin/collections/Grouping.kt", "js/src/kotlin/js/on.kt", "js/src/kotlin/math.kt", "js/src/kotlin/numbers.kt", "js/src/kotlin/promise.kt", "js/src/kotlin/random/PlatformRandom.kt", "js/src/kotlin/reflect/AssociatedObjects.kt", "js/src/kotlin/reflect/JsClass.kt", "js/src/kotlin/reflect/KClassImpl.kt", "js/src/kotlin/reflect/KClassesImpl.kt", "js/src/kotlin/reflect/KTypeHelpers.kt", "js/src/kotlin/reflect/KTypeImpl.kt", "js/src/kotlin/reflect/KTypeParameterImpl.kt", "js/src/kotlin/reflect/primitives.kt", "js/src/kotlin/reflect/reflection.kt", "js/src/kotlin/regexp.kt", "js/src/kotlin/sequence.kt", "js/src/kotlin/text/CharCategoryJS.kt", "js/src/kotlin/text/CharacterCodingExceptionJs.kt", "js/src/kotlin/text/StringBuilderJs.kt", "js/src/kotlin/text/numberConversions.kt", "js/src/kotlin/text/regex.kt", "src/kotlin/text/StringBuilder.kt", "js/src/kotlin/text/stringsCode.kt", "js/src/kotlin/text/utf8Encoding.kt", "js/src/kotlin/throwableExtensions.kt", "js/src/kotlin/time/DurationJs.kt", "js/src/kotlin/time/DurationUnit.kt", "js/src/kotlin/time/MonoTimeSource.kt", "js/src/kotlinx/dom/Builders.kt", "js/src/kotlinx/dom/Classes.kt", "src/kotlin/text/regex/RegexExtensions.kt", "js/src/kotlinx/dom/Dom.kt", "js/src/kotlinx/dom/Mutations.kt", "js/src/org.w3c/deprecated.kt", "js/src/org.w3c/org.khronos.webgl.kt", "js/src/org.w3c/org.w3c.dom.clipboard.kt", "js/src/org.w3c/org.w3c.dom.css.kt", "js/src/org.w3c/org.w3c.dom.encryptedmedia.kt", "js/src/org.w3c/org.w3c.dom.events.kt", "js/src/org.w3c/org.w3c.dom.kt", "js/src/org.w3c/org.w3c.fetch.kt", "js/src/org.w3c/org.w3c.dom.mediacapture.kt", "js/src/org.w3c/org.w3c.dom.mediasource.kt", "js/src/org.w3c/org.w3c.dom.pointerevents.kt", "js/src/org.w3c/org.w3c.dom.svg.kt", "js/src/org.w3c/org.w3c.files.kt", "js/src/org.w3c/org.w3c.notifications.kt", "js/src/org.w3c/org.w3c.workers.kt", "js/src/org.w3c/org.w3c.xhr.kt", "src/kotlin/annotations/Experimental.kt", "src/kotlin/annotations/ExperimentalStdlibApi.kt", "src/kotlin/annotations/Inference.kt", "src/kotlin/annotations/Multiplatform.kt", "src/kotlin/annotations/OptIn.kt", "src/kotlin/collections/AbstractCollection.kt", "src/kotlin/collections/AbstractIterator.kt", "src/kotlin/collections/AbstractList.kt", "src/kotlin/collections/AbstractMap.kt", "src/kotlin/collections/AbstractSet.kt", "src/kotlin/collections/ArrayDeque.kt", "src/kotlin/collections/Arrays.kt", "src/kotlin/collections/BrittleContainsOptimization.kt", "src/kotlin/collections/IndexedValue.kt", "src/kotlin/collections/MapAccessors.kt", "src/kotlin/collections/MapWithDefault.kt", "src/kotlin/collections/MutableCollections.kt", "src/kotlin/collections/ReversedViews.kt", "src/kotlin/collections/SequenceBuilder.kt", "src/kotlin/collections/SlidingWindow.kt", "src/kotlin/collections/UArraySorting.kt", "src/kotlin/comparisons/compareTo.kt", "src/kotlin/contracts/ContractBuilder.kt", "src/kotlin/coroutines/ContinuationInterceptor.kt", "src/kotlin/coroutines/CoroutineContext.kt", "src/kotlin/coroutines/CoroutineContextImpl.kt", "src/kotlin/coroutines/intrinsics/Intrinsics.kt", "src/kotlin/experimental/bitwiseOperations.kt", "src/kotlin/experimental/inferenceMarker.kt", "src/kotlin/internal/Annotations.kt", "src/kotlin/properties/Delegates.kt", "src/kotlin/properties/Interfaces.kt", "src/kotlin/properties/ObservableProperty.kt", "src/kotlin/properties/PropertyReferenceDelegates.kt", "src/kotlin/random/Random.kt", "src/kotlin/random/URandom.kt", "src/kotlin/random/XorWowRandom.kt", "src/kotlin/ranges/Ranges.kt", "src/kotlin/reflect/KClasses.kt", "src/kotlin/reflect/KTypeProjection.kt", "src/kotlin/reflect/KVariance.kt", "src/kotlin/reflect/typeOf.kt", "src/kotlin/text/Appendable.kt", "src/kotlin/text/Indent.kt", "src/kotlin/text/Typography.kt", "src/kotlin/text/regex/MatchResult.kt", "src/kotlin/time/DurationUnit.kt", "src/kotlin/time/ExperimentalTime.kt", "src/kotlin/time/TimeSource.kt", "src/kotlin/time/TimeSources.kt", "src/kotlin/time/measureTime.kt", "src/kotlin/util/DeepRecursive.kt", "src/kotlin/util/FloorDivMod.kt", "src/kotlin/util/HashCode.kt", "src/kotlin/util/KotlinVersion.kt", "src/kotlin/util/Lateinit.kt", "src/kotlin/util/Lazy.kt", "src/kotlin/util/Numbers.kt", "src/kotlin/util/Suspend.kt", "src/kotlin/util/Tuples.kt", "unsigned/src/kotlin/UIntRange.kt", "unsigned/src/kotlin/UIterators.kt", "unsigned/src/kotlin/ULongRange.kt", "unsigned/src/kotlin/UMath.kt", "unsigned/src/kotlin/UNumbers.kt", "unsigned/src/kotlin/UProgressionUtil.kt", "unsigned/src/kotlin/UStrings.kt", "unsigned/src/kotlin/annotations/Unsigned.kt", "common/src/kotlin/MathH.kt"], "sourcesContent": [{"function (root, factory) {\n if (typeof define === 'function' && define.amd) {\n define('kotlin', ['exports'], factory);\n }\n else if (typeof exports === 'object') {\n factory(module.exports);\n }\n else {\n

```

root.kotlin = {};
factory(root.kotlin);
}(this, function (Kotlin) {
    var _ = Kotlin;

    insertContent();
});
", /*
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license/LICENSE.txt file.
 */
Kotlin.isArray = function (a) {
    return (Array.isArray(a) || a instanceof
Int8Array) && a.$type$ === "BooleanArray";
Kotlin.isArray = function (a) {
    return a instanceof
Int8Array && a.$type$ !== "BooleanArray";
Kotlin.isArray = function (a) {
    return a instanceof
Int16Array;
Kotlin.isArray = function (a) {
    return a instanceof
Int32Array;
Kotlin.isArray = function (a) {
    return a instanceof
Float32Array;
Kotlin.isArray = function (a) {
    return a instanceof
Float64Array;
Kotlin.isArray = function (a) {
    return Array.isArray(a) && a.$type$ ===
"LongArray";
Kotlin.isArray = function (a) {
    return Array.isArray(a) &&
!a.$type$;
Kotlin.isArrayish = function (a) {
    return Array.isArray(a) ||
ArrayBuffer.isView(a);
Kotlin.arrayToString = function (a) {
    if (a === null) return "null";
    var
toString = Kotlin.isArray(a) ? String.fromCharCode : Kotlin.toString;
    return "[" +
Array.prototype.map.call(a, function(e) { return toString(e); }).join(", ") + "]";
Kotlin.arrayDeepToString =
function (arr) {
    return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);
Kotlin.arrayEquals =
function (a, b) {
    if (a === b) {
        return true;
    }
    if (a === null || b === null || !Kotlin.isArrayish(b) ||
a.length !== b.length) {
        return false;
    }
    for (var i = 0, n = a.length; i < n; i++) {
        if
(!Kotlin.equals(a[i], b[i])) {
            return false;
        }
    }
    return true;
Kotlin.arrayDeepEquals =
function (a, b) {
    return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);
Kotlin.arrayHashCode =
function (arr) {
    if (arr === null) return 0;
    var result = 1;
    for (var i = 0, n = arr.length; i < n; i++) {
        result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) | 0;
    }
    return result;
Kotlin.arrayDeepHashCode =
function (arr) {
    return
Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);
Kotlin.primitiveArraySort = function (array) {
    array.sort(Kotlin.doubleCompareTo);
};
", /*
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license/LICENSE.txt file.
 */
Kotlin.getCallableRef = function (name, f) {
    f.callableName = name;
    return
f;
Kotlin.getPropertyCallableRef = function (name, paramCount, getter, setter) {
    getter.get = getter;
    getter.set = setter;
    getter.callableName = name;
    return getPropertyRefClass(getter, setter,
propertyRefClassMetadataCache[paramCount]);
function getPropertyRefClass(obj, setter, cache) {
    obj.$metadata$ = getPropertyRefMetadata(typeof setter === "function" ? cache.mutable : cache.immutable);
    obj.constructor = obj;
    return obj;
}
var propertyRefClassMetadataCache = [
    {
        mutable: {
            value:
null,
            implementedInterface: function () {
                return Kotlin.kotlin.reflect.KMutableProperty0;
            }
        },
        immutable: {
            value:
null,
            implementedInterface: function () {
                return Kotlin.kotlin.reflect.KProperty0;
            }
        }
    },
    {
        mutable: {
            value:
null,
            implementedInterface: function () {
                return
Kotlin.kotlin.reflect.KMutableProperty1;
            }
        },
        immutable: {
            value:
null,
            implementedInterface: function
() {
                return Kotlin.kotlin.reflect.KProperty1;
            }
        }
    }
];
function getPropertyRefMetadata(cache) {
    if (cache.value === null) {
        cache.value = {
            interfaces: [cache.implementedInterface()],
            baseClass:
null,
            functions: {},
            properties: {},
            types: {},
            staticMembers: {}
        };
    }
    return cache.value;
};
", /*
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Language contributors.
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license/LICENSE.txt file.
 */
Kotlin.toShort = function (a) {
    return (a & 0xFFFF) << 16 >>
16;
Kotlin.toByte = function (a) {
    return (a & 0xFF) << 24 >> 24;
Kotlin.toChar = function (a) {
    return a & 0xFFFF;
Kotlin.numberToLong = function (a) {
    return a instanceof Kotlin.Long ? a :
Kotlin.Long.fromNumber(a);
Kotlin.numberToInt = function (a) {
    return a instanceof Kotlin.Long ?
a.toInt() : Kotlin.doubleToInt(a);
Kotlin.numberToShort = function (a) {
    return
Kotlin.toShort(Kotlin.numberToInt(a));
Kotlin.numberToByte = function (a) {
    return

```

```

Kotlin.toByte(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToDouble = function (a) {\n  return
+a;\n};\n\nKotlin.numberToChar = function (a) {\n  return
Kotlin.toChar(Kotlin.numberToInt(a));\n};\n\nKotlin.doubleToInt = function(a) {\n  if (a > 2147483647) return
2147483647;\n  if (a < -2147483648) return -2147483648;\n  return a | 0;\n};\n\nKotlin.toBoxedChar = function
(a) {\n  if (a == null) return a;\n  if (a instanceof Kotlin.BoxedChar) return a;\n  return new
Kotlin.BoxedChar(a);\n};\n\nKotlin.unboxChar = function(a) {\n  if (a == null) return a;\n  return
Kotlin.toChar(a);\n};\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.equals = function (obj1, obj2) {\n  if (obj1 == null) {\n    return obj2 ==
null;\n  }\n  if (obj2 == null) {\n    return false;\n  }\n  if (obj1 !== obj2) {\n    return obj2 !== obj2;\n
}\n  if (typeof obj1 === "object" && typeof obj1.equals === "function") {\n    return obj1.equals(obj2);\n
}\n  if (typeof obj1 === "number" && typeof obj2 === "number") {\n    return obj1 === obj2 && (obj1 !==
0 || 1 / obj1 === 1 / obj2);\n  }\n  return obj1 === obj2;\n};\n\nKotlin.hashCode = function (obj) {\n  if (obj ==
null) {\n    return 0;\n  }\n  var objType = typeof obj;\n  if ("object" === objType) {\n    return "function"
=== typeof obj.hashCode ? obj.hashCode() : getObjectHashCode(obj);\n  }\n  if ("function" === objType) {\n
return getObjectHashCode(obj);\n  }\n  if ("number" === objType) {\n    return
Kotlin.numberHashCode(obj);\n  }\n  if ("boolean" === objType) {\n    return Number(obj)\n  }\n  var str
= String(obj);\n  return getStringHashCode(str);\n};\n\nKotlin.toString = function (o) {\n  if (o == null) {\n
return "null";\n  }\n  else if (Kotlin.isArrayish(o)) {\n    return "["+o.toString()+"]";\n  }\n  else {\n    return
o.toString();\n  }\n};\n\n/** @const *\nvar POW_2_32 = 4294967296;\n// TODO: consider switching to Symbol
type once we are on ES6.\n** @const *\nvar OBJECT_HASH_CODE_PROPERTY_NAME =
"kotlinHashCodeValue$";\n\nfunction getObjectHashCode(obj) {\n  if
(! (OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\n    var hash = (Math.random() * POW_2_32) | 0;\n    //
Make 32-bit signed integer.\n    Object.defineProperty(obj, OBJECT_HASH_CODE_PROPERTY_NAME, {\n
value: hash, enumerable: false });\n  }\n  return
obj[OBJECT_HASH_CODE_PROPERTY_NAME];\n}\n\nfunction getStringHashCode(str) {\n  var hash = 0;\n
for (var i = 0; i < str.length; i++) {\n    var code = str.charCodeAt(i);\n    hash = (hash * 31 + code) | 0;\n    // Keep
it 32-bit.\n  }\n  return hash;\n}\n\nKotlin.identityHashCode = getObjectHashCode;\n", "/*\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by
the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Copyright 2009 The Closure
Library Authors. All Rights Reserved.\n\n// Licensed under the Apache License, Version 2.0 (the "License");\n\n//
you may not use this file except in compliance with the License.\n\n// You may obtain a copy of the License at\n\n//
http://www.apache.org/licenses/LICENSE-2.0\n\n// Unless required by applicable law or agreed to in writing,
software\n// distributed under the License is distributed on an "AS-IS" BASIS,\n// WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.\n\n/**\n * Constructs a 64-bit two's-complement integer,
given its low and high 32-bit\n * values as *signed* integers. See the from* functions below for more\n *
convenient ways of constructing Longs.\n * \n * The internal representation of a long is the two given signed, 32-bit
values.\n * \n * We use 32-bit pieces because these are the size of integers on which\n * Javascript performs bit-
operations. For operations like addition and\n * multiplication, we split each number into 16-bit pieces, which can
easily be\n * multiplied within Javascript's floating-point representation without overflow\n * or change in sign.\n
*\n * \n * In the algorithms below, we frequently reduce the negative case to the\n * positive case by negating the
input(s) and then post-processing the result.\n * \n * Note that we must ALWAYS check specially whether those values
are MIN_VALUE\n * (-2^63) because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as\n * a
positive number, it overflows back into a negative). Not handling this\n * case would often result in infinite
recursion.\n * \n * @param {number} low The low (signed) 32 bits of the long.\n * @param {number} high The
high (signed) 32 bits of the long.\n * @constructor\n * @final\n */\n\nKotlin.Long = function(low, high) {\n  /**\n
 * @type {number}\n * @private\n */\n  this.low_ = low | 0; // force into 32 signed bits.\n\n  /**\n
 * @type
{number}\n * @private\n */\n  this.high_ = high | 0; // force into 32 signed bits.\n};\n\nKotlin.Long.$metadata$ =

```

```

{\n kind: \"class\", \n simpleName: \"Long\", \n interfaces: []\n};\n\n// NOTE: Common constant values
ZERO, ONE, NEG_ONE, etc. are defined below the\n// from* methods on which they depend.\n\n/**\n * A cache
of the Long representations of small integer values.\n * @type {!Object}\n * @private\n */\nKotlin.Long.IntCache_
= {};\n\n/**\n * Returns a Long representing the given (32-bit) integer value.\n * @param {number} value The
32-bit integer in question.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromInt =
function(value) {\n if (-128 <= value && value < 128) {\n var cachedObj = Kotlin.Long.IntCache_[value];\n if
(cachedObj) {\n return cachedObj;\n }\n }\n\n var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);\n if (-
128 <= value && value < 128) {\n Kotlin.Long.IntCache_[value] = obj;\n }\n return obj;\n};\n\n/**\n *
Converts this number value to `Long`.\n * The fractional part, if any, is rounded down towards zero.\n * Returns
zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`,\n *
`Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`.\n * @param {number} value The number in
question.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromNumber =
function(value) {\n if (isNaN(value)) {\n return Kotlin.Long.ZERO;\n } else if (value <= -
Kotlin.Long.TWO_PWR_63_DBL_) {\n return Kotlin.Long.MIN_VALUE;\n } else if (value + 1 >=
Kotlin.Long.TWO_PWR_63_DBL_) {\n return Kotlin.Long.MAX_VALUE;\n } else if (value < 0) {\n return
Kotlin.Long.fromNumber(-value).negate();\n } else {\n return new Kotlin.Long(\n (value %
Kotlin.Long.TWO_PWR_32_DBL_) | 0,\n (value / Kotlin.Long.TWO_PWR_32_DBL_) | 0);\n
}\n};\n\n/**\n * Returns a Long representing the 64-bit integer that comes by concatenating\n * the given high and
low bits. Each is assumed to use 32 bits.\n * @param {number} lowBits The low 32-bits.\n * @param {number}
highBits The high 32-bits.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromBits
= function(lowBits, highBits) {\n return new Kotlin.Long(lowBits, highBits);\n};\n\n/**\n * Returns a Long
representation of the given string, written using the given\n * radix.\n * @param {string} str The textual
representation of the Long.\n * @param {number=} opt_radix The radix in which the text is written.\n * @return
{!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromString = function(str, opt_radix) {\n if
(str.length == 0) {\n throw Error('number format error: empty string');\n }\n\n var radix = opt_radix || 10;\n if
(radix < 2 || 36 < radix) {\n throw Error('radix out of range: ' + radix);\n }\n\n if (str.charAt(0) == '-') {\n return
Kotlin.Long.fromString(str.substring(1), radix).negate();\n } else if (str.indexOf('-') >= 0) {\n throw Error('number
format error: interior \"-\" character: ' + str);\n }\n\n // Do several (8) digits each time through the loop, so as to\n //
minimize the calls to the very expensive emulated div.\n var radixToPower =
Kotlin.Long.fromNumber(Math.pow(radix, 8));\n var result = Kotlin.Long.ZERO;\n for (var i = 0; i < str.length;
i += 8) {\n var size = Math.min(8, str.length - i);\n var value = parseInt(str.substring(i, i + size), radix);\n if
(size < 8) {\n var power = Kotlin.Long.fromNumber(Math.pow(radix, size));\n result =
result.multiply(power).add(Kotlin.Long.fromNumber(value));\n } else {\n result =
result.multiply(radixToPower);\n result = result.add(Kotlin.Long.fromNumber(value));\n }\n }\n return
result;\n};\n\n// NOTE: the compiler should inline these constant values below and then remove\n// these
variables, so there should be no runtime penalty for these.\n\n/**\n * Number used repeated below in calculations.
This must appear before the\n * first call to any from* function below.\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_32_DBL_ =\n Kotlin.Long.TWO_PWR_16_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_31_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\n/**\n * @type
{number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_48_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_64_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_32_DBL_;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_63_DBL_ =\n Kotlin.Long.TWO_PWR_64_DBL_ / 2;\n\n/**\n * @type
{!Kotlin.Long}\n */\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n/**\n * @type {!Kotlin.Long}

```

```

*^ Kotlin.Long.ONE = Kotlin.Long.fromInt(1);
^Kotlin.Long.NEG_ONE = Kotlin.Long.fromInt(-1);
^Kotlin.Long.MAX_VALUE = Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);
^Kotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);
^Kotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1 << 24);
The value, assuming it is a 32-bit integer.
^Kotlin.Long.prototype.toInt = function() {
  return this.low_;
};
The closest floating-point representation to this value.
^Kotlin.Long.prototype.toNumber = function() {
  return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +
  this.getLowBitsUnsigned();
};
^Kotlin.Long.prototype.hashCode = function() {
  return this.high_ ^ this.low_;
};
@param {number=} opt_radix The radix in which the text should be written.
@return {string} The textual representation of this value.
@Override
^Kotlin.Long.prototype.toString = function(opt_radix) {
  var radix = opt_radix || 10;
  if (radix < 2 || 36 < radix) {
    throw Error('radix out of range: ' + radix);
  }
  if (this.isZero()) {
    return '0';
  }
  if (this.isNegative()) {
    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
      // We need to change the Long value before it can be negated, so we remove
      // the bottom-most digit in this base and then recurse to do the rest.
      var radixLong = Kotlin.Long.fromNumber(radix);
      var div = this.div(radixLong);
      var rem = div.multiply(radixLong).subtract(this);
      return div.toString(radix) + rem.toInt().toString(radix);
    } else {
      return '-' + this.negate().toString(radix);
    }
  }
  // Do several (6) digits each time through the loop, so as to
  // minimize the calls to the very expensive emulated div.
  var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 6));
  var rem = this;
  var result = '';
  while (true) {
    var remDiv = rem.div(radixToPower);
    var intval = rem.subtract(remDiv.multiply(radixToPower)).toInt();
    var digits = intval.toString(radix);
    rem = remDiv;
    if (rem.isZero()) {
      return digits + result;
    } else {
      while (digits.length < 6) {
        digits = '0' + digits;
      }
      result = ' ' + digits + result;
    }
  }
};
The high 32-bits as a signed value.
^Kotlin.Long.prototype.getHighBits = function() {
  return this.high_;
};
The low 32-bits as a signed value.
^Kotlin.Long.prototype.getLowBits = function() {
  return this.low_;
};
The low 32-bits as an unsigned value.
^Kotlin.Long.prototype.getLowBitsUnsigned = function() {
  return (this.low_ >= 0) ?
  this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;
};
Returns the number of bits needed to represent the absolute
value of this Long.
^Kotlin.Long.prototype.getNumBitsAbs = function() {
  if (this.isNegative()) {
    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return 64;
    } else {
      return this.negate().getNumBitsAbs();
    }
  } else {
    var val = this.high_ != 0 ? this.high_ : this.low_;
    for (var bit = 31; bit > 0; bit--) {
      if ((val & (1 << bit)) != 0) {
        break;
      }
    }
    return this.high_ != 0 ? bit + 33 : bit + 1;
  }
};
Whether this value is zero.
^Kotlin.Long.prototype.isZero = function() {
  return this.high_ == 0 && this.low_ == 0;
};
Whether this value is negative.
^Kotlin.Long.prototype.isNegative = function() {
  return this.high_ < 0;
};
Whether this value is odd.
^Kotlin.Long.prototype.isOdd = function() {
  return (this.low_ & 1) == 1;
};
@param {Kotlin.Long} other Long to compare against.
@return {boolean} Whether this Long equals the other.
^Kotlin.Long.prototype.equalsLong = function(other) {
  return (this.high_ == other.high_) && (this.low_ == other.low_);
};
@param {Kotlin.Long} other Long to compare against.
@return {boolean} Whether this Long does not equal the other.
^Kotlin.Long.prototype.notEqualsLong = function(other) {
  return (this.high_ != other.high_) || (this.low_ != other.low_);
};
Whether this Long is less than the other.
^Kotlin.Long.prototype.lessThan = function(other) {
  return this.compare(other) < 0;
};
Whether this Long is less than or equal to the other.
^Kotlin.Long.prototype.lessThanOrEqual = function(other) {
  return this.compare(other) <= 0;
};
Whether this Long is greater than the other.

```

```

*^/Kotlin.Long.prototype.greaterThan = function(other) {
  return this.compare(other) > 0;
};

^/Kotlin.Long.prototype.greaterThanOrEqual = function(other) {
  return this.compare(other) >= 0;
};

^/Kotlin.Long.prototype.compare = function(other) {
  if (this.equalsLong(other)) {
    return 0;
  }

  var thisNeg = this.isNegative();
  var otherNeg = other.isNegative();
  if (thisNeg && !otherNeg) {
    return -1;
  }
  if (!thisNeg && otherNeg) {
    return 1;
  }

  // at this point, the signs are the same, so subtraction will not overflow
  if (this.subtract(other).isNegative()) {
    return -1;
  } else {
    return 1;
  }
};

^/Kotlin.Long.prototype.negate = function() {
  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
    return Kotlin.Long.MIN_VALUE;
  } else {
    return this.not().add(Kotlin.Long.ONE);
  }
};

^/Kotlin.Long.prototype.add = function(other) {
  // Divide each number into 4 chunks of 16 bits, and then sum the chunks.
  var a48 = this.high_ >>> 16;
  var a32 = this.high_ & 0xFFFF;
  var a16 = this.low_ >>> 16;
  var a00 = this.low_ & 0xFFFF;

  var b48 = other.high_ >>> 16;
  var b32 = other.high_ & 0xFFFF;
  var b16 = other.low_ >>> 16;
  var b00 = other.low_ & 0xFFFF;

  var c48 = 0, c32 = 0, c16 = 0, c00 = 0;
  c00 += a00 + b00;
  c16 += c00 >>> 16;
  c00 &= 0xFFFF;
  c16 += a16 + b16;
  c32 += c16 >>> 16;
  c16 &= 0xFFFF;
  c32 += a32 + b32;
  c48 += c32 >>> 16;
  c32 &= 0xFFFF;
  c48 += a48 + b48;
  c48 &= 0xFFFF;
  return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);
};

^/Kotlin.Long.prototype.subtract = function(other) {
  return this.add(other.negate());
};

^/Kotlin.Long.prototype.multiply = function(other) {
  if (this.isZero()) {
    return Kotlin.Long.ZERO;
  } else if (other.isZero()) {
    return Kotlin.Long.ZERO;
  }
  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
    return other.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;
  } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
    return this.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;
  }
  if (this.isNegative()) {
    if (other.isNegative()) {
      return this.negate().multiply(other.negate());
    } else {
      return this.negate().multiply(other).negate();
    }
  } else if (other.isNegative()) {
    return this.multiply(other.negate()).negate();
  }

  // If both longs are small, use float multiplication
  if (this.lessThan(Kotlin.Long.TWO_PWR_24_) && other.lessThan(Kotlin.Long.TWO_PWR_24_)) {
    return Kotlin.Long.fromNumber(this.toNumber() * other.toNumber());
  }

  // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.
  // We can skip products that would overflow.
  var a48 = this.high_ >>> 16;
  var a32 = this.high_ & 0xFFFF;
  var a16 = this.low_ >>> 16;
  var a00 = this.low_ & 0xFFFF;

  var b48 = other.high_ >>> 16;
  var b32 = other.high_ & 0xFFFF;
  var b16 = other.low_ >>> 16;
  var b00 = other.low_ & 0xFFFF;

  var c48 = 0, c32 = 0, c16 = 0, c00 = 0;
  c00 += a00 * b00;
  c16 += c00 >>> 16;
  c00 &= 0xFFFF;
  c16 += a16 * b00;
  c32 += c16 >>> 16;
  c16 &= 0xFFFF;
  c32 += a32 * b00;
  c48 += c32 >>> 16;
  c32 &= 0xFFFF;
  c32 += a16 * b16;
  c48 += c32 >>> 16;
  c32 &= 0xFFFF;
  c32 += a32 * b00;
  c48 += c32 >>> 16;
  c32 &= 0xFFFF;
  c48 += a48 * b00 + a32 * b16 + a16 * b32 + a00 * b48;
  c48 &= 0xFFFF;
  return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);
};

^/Kotlin.Long.prototype.divide = function(other) {
  if (other.isZero()) {
    throw Error('division by zero');
  } else if (this.isZero()) {
    return Kotlin.Long.ZERO;
  }
  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
    if (other.equalsLong(Kotlin.Long.ONE) || other.equalsLong(Kotlin.Long.NEG_ONE)) {
      return Kotlin.Long.MIN_VALUE; // recall that -MIN_VALUE == MIN_VALUE
    } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return Kotlin.Long.ONE;
    }
  }
};

```

```

} else {\n // At this point, we have |other| >= 2, so |this/other| < |MIN_VALUE|.\n var halfThis =
this.shiftRight(1);\n var approx = halfThis.div(other).shiftLeft(1);\n if
(approx.equalsLong(Kotlin.Long.ZERO)) {\n return other.isNegative() ? Kotlin.Long.ONE :
Kotlin.Long.NEG_ONE;\n } else {\n var rem = this.subtract(other.multiply(approx));\n var result =
approx.add(rem.div(other));\n return result;\n }\n } else if
(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n
if (other.isNegative()) {\n return this.negate().div(other.negate());\n } else {\n return
this.negate().div(other).negate();\n }\n } else if (other.isNegative()) {\n return
this.div(other.negate()).negate();\n }\n\n // Repeat the following until the remainder is less than other: find a\n //
floating-point that approximates remainder / other *from below*, add this\n // into the result, and subtract it from
the remainder. It is critical that\n // the approximate value is less than or equal to the real value so that the\n //
remainder never becomes negative.\n var res = Kotlin.Long.ZERO;\n var rem = this;\n while
(rem.greaterThanOrEqual(other)) {\n // Approximate the result of division. This may be a little greater or\n //
smaller than the actual value.\n var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));\n\n
// We will tweak the approximate result by changing it in the 48-th digit or\n // the smallest non-fractional digit,
whichever is larger.\n var log2 = Math.ceil(Math.log(approx) / Math.LN2);\n var delta = (log2 <= 48) ? 1 :
Math.pow(2, log2 - 48);\n\n // Decrease the approximation until it is smaller than the remainder. Note\n // that if
it is too large, the product overflows and is negative.\n var approxRes = Kotlin.Long.fromNumber(approx);\n
var approxRem = approxRes.multiply(other);\n while (approxRem.isNegative() || approxRem.greaterThan(rem))
{\n approx -= delta;\n approxRes = Kotlin.Long.fromNumber(approx);\n approxRem =
approxRes.multiply(other);\n }\n\n // We know the answer can't be zero... and actually, zero would cause\n //
infinite recursion since we would make no progress.\n if (approxRes.isZero()) {\n approxRes =
Kotlin.Long.ONE;\n }\n\n res = res.add(approxRes);\n rem = rem.subtract(approxRem);\n }\n return
res;\n};\n\n\n/**\n * Returns this Long modulo the given one.\n * @param {Kotlin.Long} other Long by which to
mod.\n * @return {!Kotlin.Long} This Long modulo the given one.\n */\nKotlin.Long.prototype.modulo =
function(other) {\n return this.subtract(this.div(other).multiply(other));\n};\n\n\n/**\n * @return {!Kotlin.Long} The
bitwise-NOT of this value.\n */\nKotlin.Long.prototype.not = function() {\n return Kotlin.Long.fromBits(~this.low_,
~this.high_);\n};\n\n\n/**\n * Returns the bitwise-AND of this Long and the given one.\n * @param {Kotlin.Long}
other The Long with which to AND.\n * @return {!Kotlin.Long} The bitwise-AND of this and the other.\n */\n
Kotlin.Long.prototype.and = function(other) {\n return Kotlin.Long.fromBits(this.low_ & other.low_,\n
this.high_ & other.high_);\n};\n\n\n/**\n * Returns the bitwise-OR of this Long and the given one.\n *
@param {Kotlin.Long} other The Long with which to OR.\n * @return {!Kotlin.Long} The bitwise-OR of this and
the other.\n */\nKotlin.Long.prototype.or = function(other) {\n return Kotlin.Long.fromBits(this.low_ |
other.low_,\n this.high_ | other.high_);\n};\n\n\n/**\n * Returns the bitwise-XOR of this Long
and the given one.\n * @param {Kotlin.Long} other The Long with which to XOR.\n * @return {!Kotlin.Long}
The bitwise-XOR of this and the other.\n */\nKotlin.Long.prototype.xor = function(other) {\n return
Kotlin.Long.fromBits(this.low_ ^ other.low_,\n this.high_ ^ other.high_);\n};\n\n\n/**\n *
Returns this Long with bits shifted to the left by the given amount.\n * @param {number} numBits The number of
bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the left by the given amount.\n */\n
Kotlin.Long.prototype.shiftLeft = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n return
this;\n } else {\n var low = this.low_;\n if (numBits < 32) {\n var high = this.high_;\n return
Kotlin.Long.fromBits(\n low << numBits,\n (high << numBits) | (low >>> (32 - numBits)));\n } else
{\n return Kotlin.Long.fromBits(0, low << (numBits - 32));\n }\n }\n};\n\n\n/**\n * Returns this Long with
bits shifted to the right by the given amount.\n * @param {number} numBits The number of bits by which to shift.\n
* @return {!Kotlin.Long} This shifted to the right by the given amount.\n */\nKotlin.Long.prototype.shiftRight =
function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n return this;\n } else {\n var high = this.high_;\n
if (numBits < 32) {\n var low = this.low_;\n return Kotlin.Long.fromBits(\n (low >>> numBits) | (high
<<< (32 - numBits)),\n high >> numBits);\n } else {\n return Kotlin.Long.fromBits(\n high >>

```



```

bufFloat64 = new Float64Array(buf);\n  var bufFloat32 = new Float32Array(buf);\n  var bufInt32 = new
Int32Array(buf);\n  var lowIndex = 0;\n  var highIndex = 1;\n\n  bufFloat64[0] = -1; // bff00000_00000000\n  if
(bufInt32[lowIndex] !== 0) {\n    lowIndex = 1;\n    highIndex = 0;\n  }\n\n  Kotlin.doubleToBits =
function(value) {\n    return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);\n  };\n\n  Kotlin.doubleToRawBits = function(value) {\n    bufFloat64[0] = value;\n    return
Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);\n  };\n\n  Kotlin.doubleFromBits =
function(value) {\n    bufInt32[lowIndex] = value.low_;\n    bufInt32[highIndex] = value.high_;\n    return
bufFloat64[0];\n  };\n\n  Kotlin.floatToBits = function(value) {\n    return Kotlin.floatToRawBits(isNaN(value)
? NaN : value);\n  };\n\n  Kotlin.floatToRawBits = function(value) {\n    bufFloat32[0] = value;\n    return
bufInt32[0];\n  };\n\n  Kotlin.floatFromBits = function(value) {\n    bufInt32[0] = value;\n    return
bufFloat32[0];\n  };\n\n  // returns zero value for number with positive sign bit and non-zero value for number
with negative sign bit.\n  Kotlin.doubleSignBit = function(value) {\n    bufFloat64[0] = value;\n    return
bufInt32[highIndex] & 0x80000000;\n  };\n\n  Kotlin.numberHashCode = function(obj) {\n    if ((obj | 0) ===
obj) {\n      return obj | 0;\n    }\n    else {\n      bufFloat64[0] = obj;\n      return (bufInt32[highIndex]
* 31 | 0) + bufInt32[lowIndex] | 0;\n    }\n  }\n\n  Kotlin.ensureNotNull = function(x) {\n    return x != null
? x : Kotlin.throwNPE();\n  };\n\n  /*\n  * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n  * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n  */\n\n  nif (typeof String.prototype.startsWith === "undefined") {\n
Object.defineProperty(String.prototype, "startsWith", {\n    value: function (searchString, position) {\n
position = position || 0;\n      return this.lastIndexOf(searchString, position) === position;\n    }\n  });\n\n  nif
(typeof String.prototype.endsWith === "undefined") {\n    Object.defineProperty(String.prototype, "endsWith",
{\n    value: function (searchString, position) {\n      var subjectString = this.toString();\n      if (position
=== undefined || position > subjectString.length) {\n        position = subjectString.length;\n      }\n
position -= searchString.length;\n      var lastIndex = subjectString.indexOf(searchString, position);\n
return lastIndex !== -1 && lastIndex === position;\n    }\n  });\n\n  // ES6 Math polyfills\n  nif (typeof Math.sign
=== "undefined") {\n    Math.sign = function(x) {\n      x = +x; // convert to a number\n      if (x === 0 ||
isNaN(x)) {\n        return Number(x);\n      }\n      return x > 0 ? 1 : -1;\n    };\n\n  nif (typeof Math.trunc ===
"undefined") {\n    Math.trunc = function(x) {\n      if (isNaN(x)) {\n        return NaN;\n      }\n      if (x > 0)
{\n        return Math.floor(x);\n      }\n      return Math.ceil(x);\n    };\n\n  nif (function() {\n    var epsilon =
2.220446049250313E-16;\n    var taylor_2_bound = Math.sqrt(epsilon);\n    var taylor_n_bound =
Math.sqrt(taylor_2_bound);\n    var upper_taylor_2_bound = 1/taylor_2_bound;\n    var upper_taylor_n_bound =
1/taylor_n_bound;\n\n    if (typeof Math.sinh === "undefined") {\n      Math.sinh = function(x) {\n        if
(Math.abs(x) < taylor_n_bound) {\n          var result = x;\n          if (Math.abs(x) > taylor_2_bound) {\n
result += (x * x * x) / 6;\n          }\n          return result;\n        } else {\n          var y =
Math.exp(x);\n          var y1 = 1 / y;\n          if (!isFinite(y)) return Math.exp(x - Math.LN2);\n          if
(!isFinite(y1)) return -Math.exp(-x - Math.LN2);\n          return (y - y1) / 2;\n        }\n      };\n\n    if
(typeof Math.cosh === "undefined") {\n      Math.cosh = function(x) {\n        var y = Math.exp(x);\n        var
y1 = 1 / y;\n        if (!isFinite(y) || !isFinite(y1)) return Math.exp(Math.abs(x) - Math.LN2);\n        return (y +
y1) / 2;\n      };\n\n    if (typeof Math.tanh === "undefined") {\n      Math.tanh = function(x){\n        if
(Math.abs(x) < taylor_n_bound) {\n          var result = x;\n          if (Math.abs(x) > taylor_2_bound) {\n
result -= (x * x * x) / 3;\n          }\n          return result;\n        } else {\n          var a =
Math.exp(+x), b = Math.exp(-x);\n          return a === Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a + b);\n
        }\n      };\n\n    // Inverse hyperbolic function implementations derived from boost special math functions,\n
// Copyright Eric Ford & Hubert Holin 2001.\n\n    if (typeof Math.asinh === "undefined") {\n      var asinh =
function(x) {\n        if (x >= +taylor_n_bound)\n          {\n            if (x > upper_taylor_n_bound)\n              {\n                // approximation by laurent series in
1/x at 0+ order from -1 to 0\n                return Math.log(x) + Math.LN2;\n              }\n            else\n              {\n                // approximation by laurent series in 1/x at 0+ order from -1 to 1\n                return

```

```

Math.log(x * 2 + (1 / (x * 2)));
Math.log(x + Math.sqrt(x * x + 1));
    return -asinh(-x);
    else
    // approximation by taylor series in x at 0 up to
order 2
    var result = x;
    if (Math.abs(x) >= taylor_2_bound)
    // approximation by taylor series in x at 0 up to order 4
    result -= x3 / 6;
    }
    return result;
    };
    Math.asinh = asinh;
    if (typeof Math.acosh ===
"undefined")
    Math.acosh = function(x)
    if (x < 1)
    return NaN;
    else if (x - 1 >= taylor_n_bound)
    if (x > upper_taylor_2_bound)
    // approximation by laurent series in 1/x at 0+ order from -1 to 0
    return Math.log(x) + Math.LN2;
    else
    return Math.log(x + Math.sqrt(x * x - 1));
    }
    else
    var y = Math.sqrt(x - 1);
    // approximation by taylor series in y at 0
up to order 2
    var result = y;
    if (y >= taylor_2_bound)
    var y3 = y *
y * y;
    // approximation by taylor series in y at 0 up to order 4
    result -= y3 / 12;
    }
    return Math.sqrt(2) * result;
    };
    if (typeof Math.atanh === "undefined")
    Math.atanh = function(x)
    if (Math.abs(x) < taylor_n_bound)
    var result = x;
    if (Math.abs(x) > taylor_2_bound)
    result += (x * x * x) / 3;
    return result;
    }
    return Math.log((1 + x) / (1 - x)) / 2;
    };
    if (typeof Math.log1p === "undefined")
    Math.log1p = function(x)
    if (Math.abs(x) < taylor_n_bound)
    var x2 = x * x;
    var x3 = x2 * x;
    var x4 = x3 * x;
    // approximation by taylor series in x at 0 up to order 4
    return (-x4 / 4 + x3 / 3 - x2 / 2 + x);
    }
    return Math.log(x + 1);
    };
    if (typeof
Math.expm1 === "undefined")
    Math.expm1 = function(x)
    if (Math.abs(x) < taylor_n_bound)
    var x2 = x * x;
    var x3 = x2 * x;
    var x4 = x3 * x;
    // approximation by
taylor series in x at 0 up to order 4
    return (x4 / 24 + x3 / 6 + x2 / 2 + x);
    }
    return
Math.exp(x) - 1;
    };
    if (typeof Math.hypot === "undefined")
    Math.hypot = function()
    var y = 0;
    var length = arguments.length;
    for (var i = 0; i < length; i++)
    if (arguments[i]
=== Infinity || arguments[i] === -Infinity)
    return Infinity;
    y += arguments[i] *
arguments[i];
    return Math.sqrt(y);
    };
    if (typeof Math.log10 === "undefined")
    Math.log10 = function(x)
    return Math.log(x) * Math.LOG10E;
    };
    if (typeof Math.log2 ===
"undefined")
    Math.log2 = function(x)
    return Math.log(x) * Math.LOG2E;
    };
    if (typeof
Math.clz32 === "undefined")
    Math.clz32 = (function(log, LN2)
    return function(x)
    var
asUint = x >>> 0;
    if (asUint === 0)
    return 32;
    }
    return 31 - (log(asUint) /
LN2 | 0) | 0; // the "| 0" acts like math.floor
    })(Math.log, Math.LN2);
    // For HtmlUnit and
PhantomJs
    if (typeof ArrayBuffer.isView === "undefined")
    ArrayBuffer.isView = function(a)
    return a != null && a.__proto__ != null && a.__proto__.__proto__ === Int8Array.prototype.__proto__;
    };
    if (typeof Array.prototype.fill === "undefined")
    // Polyfill from https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill
    Object.defineProperty(Array.prototype,
'fill', {
    value: function (value)
    // Steps 1-2.
    if (this == null)
    throw new
TypeError('this is null or not defined');
    var O = Object(this);
    // Steps 3-5.
    var len = O.length >>> 0;
    // Steps 6-7.
    var start = arguments[1];
    var relativeStart = start
>> 0;
    // Step 8.
    var k = relativeStart < 0 ?
Math.max(len + relativeStart, 0) :
Math.min(relativeStart, len);
    // Steps 9-10.
    var end = arguments[2];
    var
relativeEnd = end === undefined ?
len : end >> 0;
    // Step 11.
    var finalValue
= relativeEnd < 0 ?
Math.max(len + relativeEnd, 0) :
Math.min(relativeEnd,
len);
    // Step 12.
    while (k < finalValue)
    O[k] = value;
    k++;
    }
    // Step 13.
    return O;
    };
    function normalizeOffset(offset, length)
    if (offset < 0)
    return Math.max(0, offset + length);
    return Math.min(offset, length);
    }
    function
typedArraySlice(begin, end)
    if (typeof end === "undefined")
    end = this.length;
    begin = normalizeOffset(begin || 0, this.length);
    end = Math.max(begin, normalizeOffset(end, this.length));

```



```

constructor.$metadata$;
    if (metadata.kind === Kotlin.Kind.OBJECT) {
        return object === class;
    }
}
var classMetadata = class.$metadata$;
// In WebKit (JavaScriptCore) for some interfaces from
DOM typeof returns "object", nevertheless they can be used in RHS of instanceof
if (classMetadata == null) {
    return object instanceof class;
}
if (classMetadata.kind === Kotlin.Kind.INTERFACE &&
object.constructor != null) {
    return isInheritanceFromInterface(object.constructor, class);
}
return false;
};
Kotlin.isNumber = function (a) {
    return typeof a == "number" || a instanceof
Kotlin.Long;
};
Kotlin.isChar = function (value) {
    return value instanceof
Kotlin.BoxedChar;
};
Kotlin.isComparable = function (value) {
    var type = typeof value;
    return type
=== "string" ||
    type === "boolean" ||
    Kotlin.isNumber(value) ||
    Kotlin.isType(value,
Kotlin.kotlin.Comparable);
};
Kotlin.isCharSequence = function (value) {
    return typeof value === "string"
|| Kotlin.isType(value, Kotlin.kotlin.CharSequence);
};
}
/*
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.
 */
package kotlin.internal
internal fun <T> Array(size: Int): Array<T>
@JsName("newArray")
fun <T> newArray(size: Int, initialValue: T) = fillArrayVal(Array<T>(size),
initialValue)
@JsName("newArrayF")
inline fun <T> arrayWithFun(size: Int, init: (Int) -> T) =
fillArrayFun(Array<T>(size), init)
@JsName("fillArray")
inline fun <T> fillArrayFun(array: Array<T>, init:
(Int) -> T): Array<T> {
    for (i in 0..array.size - 1) {
        array[i] = init(i)
    }
    return
array
}
@JsName("booleanArray")
fun booleanArray(size: Int, init: dynamic): Array<Boolean> {
    val
result: dynamic = Array<Boolean>(size)
    result.$type$ = "BooleanArray"
    return when (init) {
        null,
true -> fillArrayVal(result, false)
        false -> result
        else -> fillArrayFun<Boolean>(result, init)
    }
}
@JsName("booleanArrayF")
inline fun booleanArrayWithFun(size: Int, init: (Int) -> Boolean):
Array<Boolean> = fillArrayFun(booleanArray(size, false),
init)
@JsName("charArray")
@Suppress("UNUSED_PARAMETER")
fun charArray(size: Int, init:
dynamic): Array<Char> {
    val result = js("new Uint16Array(size)")
    result.$type$ = "CharArray"
    return when (init) {
        null, true, false -> result // For consistency
        else -> fillArrayFun<Char>(result,
init)
    }
}
@JsName("charArrayF")
inline fun charArrayWithFun(size: Int, init: (Int) -> Char):
Array<Char> {
    val array = charArray(size, null)
    for (i in 0..array.size - 1) {
        @Suppress("UNUSED_VARIABLE") // used in js block
        val value = init(i)
        js("array[i] = value;")
    }
    return array
}
@JsName("untypedCharArrayF")
inline fun untypedCharArrayWithFun(size: Int, init:
(Int) -> Char): Array<Char> {
    val array = Array<Char>(size)
    for (i in 0..array.size - 1) {
        @Suppress("UNUSED_VARIABLE") // used in js block
        val value = init(i)
        js("array[i] = value;")
    }
    return array
}
@JsName("longArray")
fun longArray(size: Int, init: dynamic): Array<Long> {
    val
result: dynamic = Array<Long>(size)
    result.$type$ = "LongArray"
    return when (init) {
        null, true ->
fillArrayVal(result, 0L)
        false -> result
        else -> fillArrayFun<Long>(result, init)
    }
}
@JsName("longArrayF")
inline fun longArrayWithFun(size: Int, init: (Int) -> Long): Array<Long> =
fillArrayFun(longArray(size, false), init)
private fun <T> fillArrayVal(array: Array<T>, initialValue: T): Array<T>
{
    for (i in 0..array.size - 1) {
        array[i] = initialValue
    }
    return array
}
/*
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JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin
public class
Enum<T> : Enum<T>> : Comparable<Enum<T>> {
    @JsName("name$") private var _name: String = ""
    @JsName("ordinal$") private var _ordinal: Int = 0
    val name: String
        get() = _name
    val ordinal:
Int
        get() = _ordinal
    override fun compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)
    override fun equals(other: Any?) = this === other
    override fun hashCode(): Int =
js("Kotlin.identityHashCode")(this)
    override fun toString() = name
    companion object {
}
}
/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package
kotlin.js.internal
@JsName("DoubleCompanionObject")
internal object DoubleCompanionObject {
}

```

```

@JsName("MIN_VALUE")\n const val MIN_VALUE: Double = 4.9E-324\n\n
@JsName("MAX_VALUE")\n const val MAX_VALUE: Double = 1.7976931348623157E308\n\n
@JsName("POSITIVE_INFINITY")\n @Suppress("DIVISION_BY_ZERO")\n const val
POSITIVE_INFINITY: Double = 1.0 / 0.0\n\n @JsName("NEGATIVE_INFINITY")\n
@Suppress("DIVISION_BY_ZERO")\n const val NEGATIVE_INFINITY: Double = -1.0 / 0.0\n\n
@JsName("NaN")\n @Suppress("DIVISION_BY_ZERO")\n const val NaN: Double = -(0.0 / 0.0)\n\n
@JsName("SIZE_BYTES")\n const val SIZE_BYTES = 8\n\n @JsName("SIZE_BITS")\n const val
SIZE_BITS = 64\n}\n\n@JsName("FloatCompanionObject")\ninternal object FloatCompanionObject {\n
@JsName("MIN_VALUE")\n const val MIN_VALUE: Float = 1.4E-45F\n\n @JsName("MAX_VALUE")\n
const val MAX_VALUE: Float = 3.4028235E38F\n\n @JsName("POSITIVE_INFINITY")\n
@Suppress("DIVISION_BY_ZERO")\n const val POSITIVE_INFINITY: Float = 1.0F / 0.0F\n\n
@JsName("NEGATIVE_INFINITY")\n @Suppress("DIVISION_BY_ZERO")\n const val
NEGATIVE_INFINITY: Float = -1.0F / 0.0F\n\n @JsName("NaN")\n
@Suppress("DIVISION_BY_ZERO")\n const val NaN: Float = -(0.0F / 0.0F)\n\n
@JsName("SIZE_BYTES")\n const val SIZE_BYTES = 4\n\n @JsName("SIZE_BITS")\n const val
SIZE_BITS = 32\n}\n\n@JsName("IntCompanionObject")\ninternal object IntCompanionObject {\n
@JsName("MIN_VALUE")\n val MIN_VALUE: Int = -2147483647 - 1\n\n @JsName("MAX_VALUE")\n
val MAX_VALUE: Int = 2147483647\n\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 4\n\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 32\n}\n\n@JsName("LongCompanionObject")\ninternal
object LongCompanionObject {\n @JsName("MIN_VALUE")\n val MIN_VALUE: Long =
js("Kotlin.Long.MIN_VALUE")\n\n @JsName("MAX_VALUE")\n val MAX_VALUE: Long =
js("Kotlin.Long.MAX_VALUE")\n\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 8\n\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 64\n}\n\n@JsName("ShortCompanionObject")\ninternal
object ShortCompanionObject {\n @JsName("MIN_VALUE")\n val MIN_VALUE: Short = -32768\n\n
@JsName("MAX_VALUE")\n val MAX_VALUE: Short = 32767\n\n @JsName("SIZE_BYTES")\n const
val SIZE_BYTES = 2\n\n @JsName("SIZE_BITS")\n const val SIZE_BITS =
16\n}\n\n@JsName("ByteCompanionObject")\ninternal object ByteCompanionObject {\n
@JsName("MIN_VALUE")\n val MIN_VALUE: Byte = -128\n\n @JsName("MAX_VALUE")\n val
MAX_VALUE: Byte = 127\n\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 1\n\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 8\n}\n\n@JsName("CharCompanionObject")\ninternal
object CharCompanionObject {\n @JsName("MIN_VALUE")\n public const val MIN_VALUE: Char =
"\u0000"\n\n @JsName("MAX_VALUE")\n public const val MAX_VALUE: Char = "\uFFFF"\n\n
@JsName("MIN_HIGH_SURROGATE")\n public const val MIN_HIGH_SURROGATE: Char = "\uD800"\n\n
@JsName("MAX_HIGH_SURROGATE")\n public const val MAX_HIGH_SURROGATE: Char =
"\uDBFF"\n\n @JsName("MIN_LOW_SURROGATE")\n public const val MIN_LOW_SURROGATE: Char =
"\uDC00"\n\n @JsName("MAX_LOW_SURROGATE")\n public const val MAX_LOW_SURROGATE: Char =
"\uDFFF"\n\n @JsName("MIN_SURROGATE")\n public const val MIN_SURROGATE: Char =
MIN_HIGH_SURROGATE\n\n @JsName("MAX_SURROGATE")\n public const val MAX_SURROGATE:
Char = MAX_LOW_SURROGATE\n\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 2\n\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 16\n}\n\ninternal object StringCompanionObject
{\n}\n\ninternal object BooleanCompanionObject {\n}\n\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("ArraysKt")\n\npackage
kotlin.collections\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the
size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior

```

is unspecified.

```

*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component1(): T
{\n  return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1,
throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1(): Byte {\n  return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component1(): Short {\n  return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component1(): Int {\n  return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n  return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component1(): Float {\n  return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component1(): Double {\n  return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1(): Boolean {\n  return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1(): Char {\n  return
get(0)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component2(): T {\n  return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component2(): Byte {\n  return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component2(): Short {\n  return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component2(): Int {\n  return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component2(): Long {\n  return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component2(): Float {\n  return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component2(): Double {\n  return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

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*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component2(): Boolean {\n    return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component2(): Char {\n    return
get(1)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component3(): T {\n    return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component3(): Byte {\n    return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component3(): Short {\n    return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component3(): Int {\n    return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component3(): Long {\n    return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component3(): Float {\n    return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component3(): Double {\n    return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component3(): Boolean {\n    return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component3(): Char {\n    return
get(2)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component4(): T {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component4(): Byte {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component4(): Short {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component4(): Int {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component4(): Long {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n

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*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4(): Float {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component4(): Char {\n    return
get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component5(): T {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component5(): Byte {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component5(): Short {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component5(): Int {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component5(): Long {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component5(): Float {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component5(): Double {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component5(): Boolean {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component5(): Char {\n    return
get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n *\n\npublic operator fun
<@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean {\n    return indexOf(element)
>= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n *\n\npublic operator fun
ByteArray.contains(element: Byte): Boolean {\n    return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if
[element] is found in the array.\n *\n\npublic operator fun ShortArray.contains(element: Short): Boolean {\n    return
indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n *\n\npublic operator fun
IntArray.contains(element: Int): Boolean {\n    return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if
[element] is found in the array.\n *\n\npublic operator fun LongArray.contains(element: Long): Boolean {\n    return
indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n *\n\n@Deprecated("The
function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it ==
element }' instead to continue using this behavior, or '.asList().contains(element: T)' to get the same search behavior

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as in a list.", ReplaceWith("any { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")\n@Suppress("DEPRECATION_ERROR")\npublic operator fun FloatArray.contains(element: Float): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n *\n */\n@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or 'asList().contains(element: T)' to get the same search behavior as in a list.", ReplaceWith("any { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")\n@Suppress("DEPRECATION_ERROR")\npublic operator fun DoubleArray.contains(element: Double): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n *\n */\n\npublic operator fun BooleanArray.contains(element: Boolean): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n *\n */\n\npublic operator fun CharArray.contains(element: Char): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n */\n\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun <T> Array<out T>.elementAt(index: Int): T\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n */\n\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun ByteArray.elementAt(index: Int): Byte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n */\n\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun ShortArray.elementAt(index: Int): Short\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n */\n\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun IntArray.elementAt(index: Int): Int\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n */\n\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun LongArray.elementAt(index: Int): Long\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n */\n\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun FloatArray.elementAt(index: Int): Float\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n */\n\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun DoubleArray.elementAt(index: Int): Double\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n */\n\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun BooleanArray.elementAt(index: Int): Boolean\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n */\n\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun CharArray.elementAt(index: Int): Char\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n *\n */\n\n@sample samples.collections.Collections.Elements.elementAtOrElse\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n *\n */\n\n@sample samples.collections.Collections.Elements.elementAtOrElse\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n *\n */\n\n@sample samples.collections.Collections.Elements.elementAtOrElse\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n *\n */\n\n@sample

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samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n  return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n  return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.elementAtOrNull(index: Int): T? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.elementAtOrNull(index: Int): Byte? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.elementAtOrNull(index: Int): Short? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrNull(index: Int): Int? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrNull(index: Int): Long? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrNull(index: Int): Float? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.elementAtOrNull(index: Int): Double? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.elementAtOrNull(index: Int): Boolean? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample

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`samples.collections.Collections.Elements.elementAtOrNull` `*\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.elementAtOrNull(index: Int): Char? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.find(predicate: (Byte) -> Boolean): Byte? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.find(predicate: (Short) -> Boolean): Short? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.find(predicate: (Int) -> Boolean): Int? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.find(predicate: (Long) -> Boolean): Long? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.find(predicate: (Float) -> Boolean): Float? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.find(predicate: (Double) -> Boolean): Double? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.find(predicate: (Char) -> Boolean): Char? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.findLast(predicate: (Short) -> Boolean): Short? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.findLast(predicate: (Int) -> Boolean): Int? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.findLast(predicate: (Long) -> Boolean): Long? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `*\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.findLast(predicate: (Float) -> Boolean): Float? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

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samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {\n  return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {\n  return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.findLast(predicate: (Char) -> Boolean): Char? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns
first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun <T> Array<out
T>.first(): T {\n  if (isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return
this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\npublic fun ByteArray.first(): Byte {\n  if (isEmpty())\n    throw NoSuchElementException("Array is
empty.")\n  return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
array is empty.\n */\npublic fun ShortArray.first(): Short {\n  if (isEmpty())\n    throw
NoSuchElementException("Array is empty.")\n  return this[0]\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n */\npublic fun IntArray.first(): Int {\n  if (isEmpty())\n
throw NoSuchElementException("Array is empty.")\n  return this[0]\n}\n\n/**\n * Returns first element.\n *
@throws [NoSuchElementException] if the array is empty.\n */\npublic fun LongArray.first(): Long {\n  if
(isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return this[0]\n}\n\n/**\n * Returns first
element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun FloatArray.first(): Float
{\n  if (isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return this[0]\n}\n\n/**\n *
Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun
DoubleArray.first(): Double {\n  if (isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return
this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\npublic fun BooleanArray.first(): Boolean {\n  if (isEmpty())\n    throw NoSuchElementException("Array is
empty.")\n  return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
array is empty.\n */\npublic fun CharArray.first(): Char {\n  if (isEmpty())\n    throw
NoSuchElementException("Array is empty.")\n  return this[0]\n}\n\n/**\n * Returns the first element matching
the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun
<T> Array<out T>.first(predicate: (T) -> Boolean): T {\n  for (element in this) if (predicate(element)) return
element\n  throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n */\npublic inline fun ByteArray.first(predicate: (Byte) -> Boolean): Byte {\n  for (element in
this) if (predicate(element)) return element\n  throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.first(predicate: (Short) -
> Boolean): Short {\n  for (element in this) if (predicate(element)) return element\n  throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun IntArray.first(predicate: (Int) -> Boolean): Int {\n  for (element in this) if (predicate(element))
return element\n  throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun LongArray.first(predicate: (Long) -
> Boolean): Long {\n  for (element in this) if (predicate(element)) return element\n  throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {\n  for (element in this) if
(predicate(element)) return element\n  throw NoSuchElementException("Array contains no element matching the

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predicate.\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun DoubleArray.first(predicate:
(Double) -> Boolean): Double {\n    for (element in this) if (predicate(element)) return element\n    throw
NoSuchElementException("Array contains no element matching the predicate.\n")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {\n    for (element in this) if
(predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the
predicate.\n")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun CharArray.first(predicate: (Char) ->
Boolean): Char {\n    for (element in this) if (predicate(element)) return element\n    throw
NoSuchElementException("Array contains no element matching the predicate.\n")\n}\n\n/**\n * Returns the first
non-null value produced by [transform] function being applied to elements of this array in iteration order,\n * or
throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*/\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out
T>.firstNotNullOf(transform: (T) -> R?): R {\n    return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the array was transformed to a non-null value.\n")\n}\n\n/**\n * Returns
the first non-null value produced by [transform] function being applied to elements of this array in iteration order,\n
* or `null` if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*/\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out
T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n    for (element in this) {\n        val result =
transform(element)\n        if (result != null) {\n            return result\n        }\n    }\n    return null\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun <T> Array<out T>.firstOrNull(): T? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*/\npublic fun ByteArray.firstOrNull(): Byte? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the
first element, or `null` if the array is empty.\n */\npublic fun ShortArray.firstOrNull(): Short? {\n    return if
(isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*/\npublic fun IntArray.firstOrNull(): Int? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the
first element, or `null` if the array is empty.\n */\npublic fun LongArray.firstOrNull(): Long? {\n    return if
(isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*/\npublic fun FloatArray.firstOrNull(): Float? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the
first element, or `null` if the array is empty.\n */\npublic fun DoubleArray.firstOrNull(): Double? {\n    return if
(isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*/\npublic fun BooleanArray.firstOrNull(): Boolean? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the
first element, or `null` if the array is empty.\n */\npublic fun CharArray.firstOrNull(): Char? {\n    return if
(isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n */\npublic inline fun <T> Array<out T>.firstOrNull(predicate: (T) -> Boolean): T? {\n    for
(element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun ByteArray.firstOrNull(predicate: (Byte) ->
Boolean): Byte? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
ShortArray.firstOrNull(predicate: (Short) -> Boolean): Short? {\n    for (element in this) if (predicate(element))
return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n */\npublic inline fun IntArray.firstOrNull(predicate: (Int) -> Boolean): Int? {\n    for
(element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? {\n    for (element in this) if (predicate(element))

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return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n */\npublic inline fun FloatArray.firstOrNull(predicate: (Float) -> Boolean): Float? {\n
for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double? {\n    for (element in this) if
(predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n */\npublic inline fun BooleanArray.firstOrNull(predicate:
(Boolean) -> Boolean): Boolean? {\n    for (element in this) if (predicate(element)) return
element\n    return
null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n
*/\npublic inline fun CharArray.firstOrNull(predicate: (Char) -> Boolean): Char? {\n    for (element in this) if
(predicate(element)) return element\n    return null\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.getOrNull(index: Int, defaultValue: (Int) ->
T): T? {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.getOrNull(index: Int, defaultValue: (Int) -
> Byte): Byte? {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n *
Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.getOrNull(index: Int,
defaultValue: (Int) -> Short): Short? {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.getOrNull(index: Int, defaultValue: (Int) -> Int): Int? {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n\n@kotlin.internal.InlineOnly\npublic inline
fun LongArray.getOrNull(index: Int, defaultValue: (Int) -> Long): Long? {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.getOrNull(index: Int, defaultValue: (Int) -> Float):
Float? {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.getOrNull(index: Int, defaultValue:
(Int) -> Double): Double? {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.getOrNull(index: Int, defaultValue: (Int) -> Boolean): Boolean? {\n    return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result
of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.getOrNull(index: Int, defaultValue: (Int) -> Char):
Char? {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n\n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun <T> Array<out T>.getOrNull(index: Int): T?
{\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n */\n\n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun ByteArray.getOrNull(index: Int): Byte? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n */\n\n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun ShortArray.getOrNull(index: Int): Short? {\n

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return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun IntArray.getOrNull(index: Int): Int? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun LongArray.getOrNull(index: Int): Long? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun FloatArray.getOrNull(index: Int): Float? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun DoubleArray.getOrNull(index: Int): Double?
{\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun BooleanArray.getOrNull(index: Int): Boolean?
{\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun CharArray.getOrNull(index: Int): Char? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -
1 if the array does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out
T>.indexOf(element: T): Int {\n    if (element == null) {\n        for (index in indices) {\n            if (this[index] ==
null) {\n                return index\n            }\n        }\n    } else {\n        for (index in indices) {\n            if (element ==
this[index]) {\n                return index\n            }\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n */\npublic fun ByteArray.indexOf(element: Byte): Int {\n
for (index in indices) {\n    if (element == this[index]) {\n        return index\n    }\n}\n    return -
1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun
ShortArray.indexOf(element: Short): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n
return index\n    }\n}\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not
contain element.\n */\npublic fun IntArray.indexOf(element: Int): Int {\n    for (index in indices) {\n        if (element
== this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -
1 if the array does not contain element.\n */\npublic fun LongArray.indexOf(element: Long): Int {\n    for (index in
indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n */\n@Deprecated("\nThe function has unclear
behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfFirst { it == element }'
instead to continue using this behavior, or '.asList().indexOf(element: T)' to get the same search behavior as in a
list.", ReplaceWith("\nindexOfFirst { it == element }\n"))\n@DeprecatedSinceKotlin(warningSince = "\n1.4\n",
errorSince = "\n1.6\n")\npublic fun FloatArray.indexOf(element: Float): Int {\n    for (index in indices) {\n        if
(element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n */\n@Deprecated("\nThe function has unclear behavior when
searching for NaN or zero values and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue
using this behavior, or '.asList().indexOf(element: T)' to get the same search behavior as in a list.",
ReplaceWith("\nindexOfFirst { it == element }\n"))\n@DeprecatedSinceKotlin(warningSince = "\n1.4\n", errorSince =
"\n1.6\n")\npublic fun DoubleArray.indexOf(element: Double): Int {\n    for (index in indices) {\n        if (element ==
this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if
the array does not contain element.\n */\npublic fun BooleanArray.indexOf(element: Boolean): Int {\n    for (index
in indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n *
Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun
CharArray.indexOf(element: Char): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n

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return index\n    }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given
[predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T> Array<out
T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n
return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given
[predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index]))
{\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the
given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T>
Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
DoubleArray.indexOfLast(predicate: (Double) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if

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(predicate(this[index])) {\n      return index\n    }\n  }\n  return -1\n}\n\n/**\n * Returns index of the last  

element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun  

BooleanArray.indexOfLast(predicate: (Boolean) -> Boolean): Int {\n  for (index in indices.reversed()) {\n    if  

(predicate(this[index])) {\n      return index\n    }\n  }\n  return -1\n}\n\n/**\n * Returns index of the last  

element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun  

CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {\n  for (index in indices.reversed()) {\n    if  

(predicate(this[index])) {\n      return index\n    }\n  }\n  return -1\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample  

samples.collections.Collections.Elements.last\n */\npublic fun <T> Array<out T>.last(): T {\n  if (isEmpty())\n  throw NoSuchElementException("Array is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last  

element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample  

samples.collections.Collections.Elements.last\n */\npublic fun ByteArray.last(): Byte {\n  if (isEmpty())\n  throw NoSuchElementException("Array is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last  

element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample  

samples.collections.Collections.Elements.last\n */\npublic fun ShortArray.last(): Short {\n  if (isEmpty())\n  throw NoSuchElementException("Array is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last  

element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample  

samples.collections.Collections.Elements.last\n */\npublic fun IntArray.last(): Int {\n  if (isEmpty())\n  throw  

NoSuchElementException("Array is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample  

samples.collections.Collections.Elements.last\n */\npublic fun LongArray.last(): Long {\n  if (isEmpty())\n  throw  

NoSuchElementException("Array is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last  

element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample  

samples.collections.Collections.Elements.last\n */\npublic fun FloatArray.last(): Float {\n  if (isEmpty())\n  throw  

NoSuchElementException("Array is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last  

element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample  

samples.collections.Collections.Elements.last\n */\npublic fun DoubleArray.last(): Double {\n  if (isEmpty())\n  throw  

NoSuchElementException("Array is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last  

element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample  

samples.collections.Collections.Elements.last\n */\npublic fun BooleanArray.last(): Boolean {\n  if (isEmpty())\n  throw  

NoSuchElementException("Array is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last  

element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample  

samples.collections.Collections.Elements.last\n */\npublic fun CharArray.last(): Char {\n  if (isEmpty())\n  throw  

NoSuchElementException("Array is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last  

element matching the given [predicate].\n */\n * @throws NoSuchElementException if no such element is found.\n */\n * @sample  

samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Array<out  

T>.last(predicate: (T) -> Boolean): T {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if  

(predicate(element)) return element\n  }\n  throw NoSuchElementException("Array contains no element  

matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n */\n * @throws  

NoSuchElementException if no such element is found.\n */\n * @sample  

samples.collections.Collections.Elements.last\n */\npublic inline fun ByteArray.last(predicate: (Byte) -> Boolean):  

Byte {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if (predicate(element)) return  

element\n  }\n  throw NoSuchElementException("Array contains no element matching the  

predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n */\n * @throws  

NoSuchElementException if no such element is found.\n */\n * @sample  

samples.collections.Collections.Elements.last\n */\npublic inline fun ShortArray.last(predicate: (Short) -> Boolean):  

Short {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if (predicate(element))  

return element\n  }\n  throw NoSuchElementException("Array contains no element matching the

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predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun IntArray.last(predicate: (Int) -> Boolean): Int
{\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return
element\n    }\n    throw NoSuchElementException("\nArray contains no element matching the
predicate.\n")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun LongArray.last(predicate: (Long) -> Boolean):
Long {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element))
return element\n    }\n    throw NoSuchElementException("\nArray contains no element matching the
predicate.\n")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun FloatArray.last(predicate: (Float) -> Boolean):
Float {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element))
return element\n    }\n    throw NoSuchElementException("\nArray contains no element matching the
predicate.\n")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun DoubleArray.last(predicate: (Double) ->
Boolean): Double {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("\nArray contains no element
matching the predicate.\n")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun BooleanArray.last(predicate: (Boolean) ->
Boolean): Boolean {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("\nArray contains no element
matching the predicate.\n")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun CharArray.last(predicate: (Char) -> Boolean):
Char {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element))
return element\n    }\n    throw NoSuchElementException("\nArray contains no element matching the
predicate.\n")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic
fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.lastIndexOf(element: T): Int {\n    if (element == null) {\n
        for (index in indices.reversed()) {\n            if (this[index] == null) {\n                return index\n            }
        }\n    } else {\n        for (index in indices.reversed()) {\n            if (element == this[index]) {\n
                return index\n            }\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain
element.\n */\npublic fun ByteArray.lastIndexOf(element: Byte): Int {\n    for (index in indices.reversed()) {\n        if
(element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of
[element], or -1 if the array does not contain element.\n */\npublic fun ShortArray.lastIndexOf(element: Short): Int
{\n    for (index in indices.reversed()) {\n        if (element == this[index]) {\n            return index\n        }\n    }
}\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun
IntArray.lastIndexOf(element: Int): Int {\n    for (index in indices.reversed()) {\n        if (element == this[index]) {\n
            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not
contain element.\n */\npublic fun LongArray.lastIndexOf(element: Long): Int {\n    for (index in indices.reversed())
{\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last
index of [element], or -1 if the array does not contain element.\n */\n@Deprecated("\nThe function has unclear
behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfLast { it == element }'
instead to continue using this behavior, or '.asList().lastIndexOf(element: T)' to get the same search behavior as in a
list.", ReplaceWith("\nindexOfLast { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "\n1.4",

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errorSince = `1.6`)
public fun FloatArray.lastIndexOf(element: Float): Int {
    for (index in indices.reversed())
        if (element == this[index])
            return index
    return -1
}
// Returns last index of [element], or -1 if the array does not contain element.
// @Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfLast { it == element }' instead to continue using this behavior, or '.asList().lastIndexOf(element: T)' to get the same search behavior as in a list.", ReplaceWith("indexOfLast { it == element }"))
@DeprecatedSinceKotlin(warningSince = `1.4`,
errorSince = `1.6`)
public fun DoubleArray.lastIndexOf(element: Double): Int {
    for (index in indices.reversed())
        if (element == this[index])
            return index
    return -1
}
// Returns last index of [element], or -1 if the array does not contain element.
public fun BooleanArray.lastIndexOf(element: Boolean): Int {
    for (index in indices.reversed())
        if (element == this[index])
            return index
    return -1
}
// Returns last index of [element], or -1 if the array does not contain element.
public fun CharArray.lastIndexOf(element: Char): Int {
    for (index in indices.reversed())
        if (element == this[index])
            return index
    return -1
}
// Returns the last element, or `null` if the array is empty.
// @sample
samples.collections.Collections.Elements.last
public fun <T> Array<out T>.lastOrNull(): T? {
    return if (isEmpty()) null else this[size - 1]
}
// Returns the last element, or `null` if the array is empty.
// @sample
samples.collections.Collections.Elements.last
public fun ByteArray.lastOrNull(): Byte? {
    return if (isEmpty()) null else this[size - 1]
}
// Returns the last element, or `null` if the array is empty.
// @sample
samples.collections.Collections.Elements.last
public fun ShortArray.lastOrNull(): Short? {
    return if (isEmpty()) null else this[size - 1]
}
// Returns the last element, or `null` if the array is empty.
// @sample
samples.collections.Collections.Elements.last
public fun IntArray.lastOrNull(): Int? {
    return if (isEmpty()) null else this[size - 1]
}
// Returns the last element, or `null` if the array is empty.
// @sample
samples.collections.Collections.Elements.last
public fun LongArray.lastOrNull(): Long? {
    return if (isEmpty()) null else this[size - 1]
}
// Returns the last element, or `null` if the array is empty.
// @sample
samples.collections.Collections.Elements.last
public fun FloatArray.lastOrNull(): Float? {
    return if (isEmpty()) null else this[size - 1]
}
// Returns the last element, or `null` if the array is empty.
// @sample
samples.collections.Collections.Elements.last
public fun DoubleArray.lastOrNull(): Double? {
    return if (isEmpty()) null else this[size - 1]
}
// Returns the last element, or `null` if the array is empty.
// @sample
samples.collections.Collections.Elements.last
public fun BooleanArray.lastOrNull(): Boolean? {
    return if (isEmpty()) null else this[size - 1]
}
// Returns the last element, or `null` if the array is empty.
// @sample
samples.collections.Collections.Elements.last
public fun CharArray.lastOrNull(): Char? {
    return if (isEmpty()) null else this[size - 1]
}
// Returns the last element matching the given [predicate], or `null` if no such element was found.
// @sample
samples.collections.Collections.Elements.last
public inline fun <T> Array<out T>.lastOrNull(predicate: (T) -> Boolean): T? {
    for (index in this.indices.reversed())
        val element = this[index]
        if (predicate(element))
            return element
    return null
}
// Returns the last element matching the given [predicate], or `null` if no such element was found.
// @sample
samples.collections.Collections.Elements.last
public inline fun ByteArray.lastOrNull(predicate: (Byte) -> Boolean): Byte? {
    for (index in this.indices.reversed())
        val element = this[index]
        if (predicate(element))
            return element
    return null
}
// Returns the last element matching the given [predicate], or `null` if no such element was found.
// @sample
samples.collections.Collections.Elements.last
public inline fun ShortArray.lastOrNull(predicate: (Short) -> Boolean): Short? {
    for (index in this.indices.reversed())
        val element = this[index]
        if (predicate(element))
            return element
    return null
}
// Returns the last element matching the given [predicate], or `null` if no such element was found.
// @sample
samples.collections.Collections.Elements.last
public inline fun IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {
    for (index in this.indices.reversed())
        val element = this[index]
        if (predicate(element))
            return element
    return null
}
// Returns the last element matching the given

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[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun LongArray.lastOrNull(predicate: (Long) ->
Boolean): Long? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun FloatArray.lastOrNull(predicate: (Float) ->
Boolean): Float? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun DoubleArray.lastOrNull(predicate: (Double) ->
Boolean): Double? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun BooleanArray.lastOrNull(predicate: (Boolean) ->
Boolean): Boolean? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun CharArray.lastOrNull(predicate: (Char) ->
Boolean): Char? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns a random element from this array.\n
* \n * @throws NoSuchElementException if this array is empty.\n
*^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.random(): T {\n
return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n *^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.random(): Byte {\n return random(Random)\n}\n\n/**\n * Returns a random element from
this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.random(): Short {\n return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n *^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.random(): Int {\n return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.random(): Long {\n return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n *^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun FloatArray.random(): Float {\n return random(Random)\n}\n\n/**\n * Returns a random element from
this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.random(): Double {\n
return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n *^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun BooleanArray.random(): Boolean {\n return random(Random)\n}\n\n/**\n * Returns a random element
from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.random(): Char {\n return
random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n *^\n@SinceKotlin("1.3")\npublic
fun <T> Array<out T>.random(random: Random): T {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n *^\n@SinceKotlin("1.3")\npublic fun ByteArray.random(random: Random): Byte {\n if

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(isEmpty())\n    throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\npublic
fun ShortArray.random(random: Random): Short {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin("1.3")\npublic fun IntArray.random(random: Random): Int {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\npublic
fun LongArray.random(random: Random): Long {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin("1.3")\npublic fun FloatArray.random(random: Random): Float {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\npublic
fun DoubleArray.random(random: Random): Double {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin("1.3")\npublic fun BooleanArray.random(random: Random): Boolean {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\npublic
fun CharArray.random(random: Random): Char {\n    if (isEmpty())\n        throw NoSuchElementException("Array
is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if
this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <T> Array<out T>.randomOrNull(): T? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun ByteArray.randomOrNull(): Byte? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun ShortArray.randomOrNull(): Short? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun IntArray.randomOrNull(): Int? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun LongArray.randomOrNull(): Long? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun FloatArray.randomOrNull(): Float? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun DoubleArray.randomOrNull(): Double? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.randomOrNull(): Boolean? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> Array<out T>.randomOrNull(random: Random): T? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun ByteArray.randomOrNull(random: Random): Byte? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun ShortArray.randomOrNull(random: Random): Short? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun IntArray.randomOrNull(random: Random): Int? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun LongArray.randomOrNull(random: Random): Long? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun FloatArray.randomOrNull(random: Random): Float? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun DoubleArray.randomOrNull(random: Random): Double? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun BooleanArray.randomOrNull(random: Random): Boolean? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun CharArray.randomOrNull(random: Random): Char? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n\npublic fun <T> Array<out T>.single(): T {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw NoSuchElementException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */
*\npublic fun ByteArray.single(): Byte {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw NoSuchElementException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */
*\npublic fun

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ShortArray.single(): Short {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}
/** Returns the single element, or throws an exception if the array is empty or has more than one element. */
public fun IntArray.single(): Int {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}
/** Returns the single element, or throws an exception if the array is empty or has more than one element. */
public fun LongArray.single(): Long {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}
/** Returns the single element, or throws an exception if the array is empty or has more than one element. */
public fun FloatArray.single(): Float {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}
/** Returns the single element, or throws an exception if the array is empty or has more than one element. */
public fun DoubleArray.single(): Double {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}
/** Returns the single element, or throws an exception if the array is empty or has more than one element. */
public fun BooleanArray.single(): Boolean {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}
/** Returns the single element, or throws an exception if the array is empty or has more than one element. */
public fun CharArray.single(): Char {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}
/** Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element. */
public inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST") return single as T
}
/** Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element. */
public inline fun ByteArray.single(predicate: (Byte) -> Boolean): Byte {
    var single: Byte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST") return single as Byte
}
/** Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element. */
public inline fun ShortArray.single(predicate: (Short) -> Boolean): Short {
    var single: Short? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST") return single as Short
}
/** Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element. */
public inline fun IntArray.single(predicate: (Int) -> Boolean): Int {
    var single: Int? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST") return single as Int
}
/** Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element. */
public inline fun LongArray.single(predicate: (Long) -> Boolean): Long {
    var single: Long? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST") return single as Long
}

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found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) throw
IllegalArgumentException("Array contains more than one matching element.")\n      single = element\n
found = true\n    }\n  }\n  if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")\n  @Suppress("UNCHECKED_CAST")\n  return single as Long\n}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {\n  var single: Float? =
null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) throw
IllegalArgumentException("Array contains more than one matching element.")\n      single = element\n
found = true\n    }\n  }\n  if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")\n  @Suppress("UNCHECKED_CAST")\n  return single as Float\n}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {\n  var single:
Double? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found)
throw ArgumentException("Array contains more than one matching element.")\n      single = element\n
found = true\n    }\n  }\n  if (!found) throw NoSuchElementException("Array contains no element
matching the predicate.")\n  @Suppress("UNCHECKED_CAST")\n  return single as Double\n}\n\n/**\n *
Returns the single element matching the given [predicate], or throws exception if there is no or more than one
matching element.\n */\npublic inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {\n  var
single: Boolean? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if
(found) throw ArgumentException("Array contains more than one matching element.")\n      single =
element\n      found = true\n    }\n  }\n  if (!found) throw NoSuchElementException("Array contains no
element matching the predicate.")\n  @Suppress("UNCHECKED_CAST")\n  return single as
Boolean\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no
or more than one matching element.\n */\npublic inline fun CharArray.single(predicate: (Char) -> Boolean): Char
{\n  var single: Char? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n
if (found) throw ArgumentException("Array contains more than one matching element.")\n      single =
element\n      found = true\n    }\n  }\n  if (!found) throw NoSuchElementException("Array contains no
element matching the predicate.")\n  @Suppress("UNCHECKED_CAST")\n  return single as Char\n}\n\n/**\n *
Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun <T>
Array<out T>.singleOrNull(): T? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or
`null` if the array is empty or has more than one element.\n */\npublic fun ByteArray.singleOrNull(): Byte? {\n
return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n */\npublic fun ShortArray.singleOrNull(): Short? {\n  return if (size == 1) this[0] else
null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic
fun IntArray.singleOrNull(): Int? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or
`null` if the array is empty or has more than one element.\n */\npublic fun LongArray.singleOrNull(): Long? {\n
return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n */\npublic fun FloatArray.singleOrNull(): Float? {\n  return if (size == 1) this[0] else
null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic
fun DoubleArray.singleOrNull(): Double? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n */\npublic fun BooleanArray.singleOrNull():
Boolean? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is
empty or has more than one element.\n */\npublic fun CharArray.singleOrNull(): Char? {\n  return if (size == 1)
this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not
found or more than one element was found.\n */\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -
> Boolean): T? {\n  var single: T? = null\n  var found = false\n  for (element in this) {\n    if
(predicate(element)) {\n      if (found) return null\n      single = element\n      found = true\n    }\n  }\n
if (!found) return null\n  return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or

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`null` if element was not found or more than one element was found.\n */\npublic inline fun
ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {\n    var single: Byte? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element
matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic
inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n    var single: Short? = null\n    var
found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single
= element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n */\npublic inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {\n    var single: Int? = null\n
var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n
single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n *
Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n    var
single: Long? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if
(found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n
return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found
or more than one element was found.\n */\npublic inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean):
Float? {\n    var single: Float? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element))
{\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found)
return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element
was not found or more than one element was found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate:
(Double) -> Boolean): Double? {\n    var single: Double? = null\n    var found = false\n    for (element in this) {\n
if (predicate(element)) {\n        if (found) return null\n        single = element\n        found = true\n    }\n    }\n
if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given
[predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun
BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n    var single: Boolean? = null\n    var
found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single
= element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n */\npublic inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {\n    var single: Char?
= null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return
null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return
single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentExcepion if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.drop(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentExcepion if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.drop(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentExcepion if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.drop(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentExcepion if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.drop(n: Int): List<Int> {\n

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require(n >= 0) { \"Requested element count $n is less than zero.\" } \n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun LongArray.drop(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun FloatArray.drop(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun DoubleArray.drop(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun BooleanArray.drop(n: Int): List<Boolean>
{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" } \n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun CharArray.drop(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun <T> Array<out T>.dropLast(n: Int): List<T>
{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" } \n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ByteArray.dropLast(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ShortArray.dropLast(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun IntArray.dropLast(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun LongArray.dropLast(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun FloatArray.dropLast(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun DoubleArray.dropLast(n: Int): List<Double>

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{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun BooleanArray.dropLast(n: Int):
List<Boolean> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun CharArray.dropLast(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun <T>
Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n  for (index in lastIndex downTo 0) {\n    if
(!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns
a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun ByteArray.dropLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun ShortArray.dropLastWhile(predicate:
(Short) -> Boolean): List<Short> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun IntArray.dropLastWhile(predicate:
(Int) -> Boolean): List<Int> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun LongArray.dropLastWhile(predicate:
(Long) -> Boolean): List<Long> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun FloatArray.dropLastWhile(predicate:
(Float) -> Boolean): List<Float> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun DoubleArray.dropLastWhile(predicate:
(Double) -> Boolean): List<Double> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun
BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n  for (index in lastIndex
downTo 0) {\n    if (!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {\n  for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun <T> Array<out
T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n  var yielding = false\n  val list = ArrayList<T>()\n  for

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(item in this)\n    if (yielding)\n        list.add(item)\n    else if (!predicate(item)) {\n        list.add(item)\n        yielding = true\n    }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic
inline fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {\n    var yielding = false\n    val list =
ArrayList<Byte>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n
            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun ShortArray.dropWhile(predicate:
(Short) -> Boolean): List<Short> {\n    var yielding = false\n    val list = ArrayList<Short>()\n    for (item in this)\n
        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding =
true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun
IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {\n    var yielding = false\n    val list =
ArrayList<Int>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n
            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements
except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun LongArray.dropWhile(predicate:
(Long) -> Boolean): List<Long> {\n    var yielding = false\n    val list = ArrayList<Long>()\n    for (item in this)\n
        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding =
true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun
FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {\n    var yielding = false\n    val list =
ArrayList<Float>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item))
{\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun DoubleArray.dropWhile(predicate:
(Double) -> Boolean): List<Double> {\n    var yielding = false\n    val list = ArrayList<Double>()\n    for (item in
this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding =
true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic
inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n    var yielding = false\n
    val list = ArrayList<Boolean>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if
(!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list
containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun CharArray.dropWhile(predicate:
(Char) -> Boolean): List<Char> {\n    var yielding = false\n    val list = ArrayList<Char>()\n    for (item in this)\n
        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding =
true\n        }\n    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n *
@sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Array<out
T>.filter(predicate: (T) -> Boolean): List<T> {\n    return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns
a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun ByteArray.filter(predicate: (Byte) -> Boolean):
List<Byte> {\n    return filterTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements
matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline
fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {\n    return filterTo(ArrayList<Short>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun IntArray.filter(predicate: (Int) -> Boolean):
List<Int> {\n    return filterTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements

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matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline
fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {\n    return filterTo(ArrayList<Long>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun FloatArray.filter(predicate: (Float) ->
Boolean): List<Float> {\n    return filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing
only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*/\npublic inline fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {\n    return
filterTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun
BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n    return filterTo(ArrayList<Boolean>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun CharArray.filter(predicate: (Char) ->
Boolean): List<Char> {\n    return filterTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing
only elements matching the given [predicate].\n * \n * @param [predicate] function that takes the index of an element
and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun <T> Array<out
T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n    return filterIndexedTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic
inline fun ByteArray.filterIndexed(predicate: (index: Int, Byte) -> Boolean): List<Byte> {\n    return
filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * \n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun ShortArray.filterIndexed(predicate:
(index: Int, Short) -> Boolean): List<Short> {\n    return filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/**\n
* Returns a list containing only elements matching the given [predicate].\n * \n * @param [predicate] function that
takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n
* \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun
IntArray.filterIndexed(predicate: (index: Int, Int) -> Boolean): List<Int> {\n    return
filterIndexedTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * \n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun LongArray.filterIndexed(predicate:
(index: Int, Long) -> Boolean): List<Long> {\n    return filterIndexedTo(ArrayList<Long>(), predicate)\n}\n\n/**\n
* Returns a list containing only elements matching the given [predicate].\n * \n * @param [predicate] function that
takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n
* \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun
FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {\n    return
filterIndexedTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * \n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun DoubleArray.filterIndexed(predicate:
(index: Int, Double) -> Boolean): List<Double> {\n    return filterIndexedTo(ArrayList<Double>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic
inline fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {\n    return

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filterIndexedTo(ArrayList<Boolean>(), predicate)\n\n/**\n * Returns a list containing only elements matching
the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun CharArray.filterIndexed(predicate:
(index: Int, Char) -> Boolean): List<Char> {\n    return filterIndexedTo(ArrayList<Char>(), predicate)\n}\n\n/**\n *
Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that
takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the
element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C :
MutableCollection<in T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C
{\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate:
(index: Int, Byte) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Short>>
ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> Boolean): C {\n    forEachIndexed {
index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterIndexedTo(destination: C, predicate: (index:
Int, Int) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {\n    forEachIndexed {
index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterIndexedTo(destination: C, predicate:
(index: Int, Float) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in
Double>> DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C {\n   
forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate:
(index: Int, Boolean) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))

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destination.add(element)\n } \n return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n * \n\npublic inline fun <C : MutableCollection<in Char>>
CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n forEachIndexed {
index, element ->\n if (predicate(index, element)) destination.add(element)\n } \n return
destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n *
\n * @sample samples.collections.Collections.Filtering.filterIsInstance\n * \n\npublic inline fun <reified R>
Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n return
filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type
parameter R to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstanceTo\n * \n\npublic inline fun <reified R, C :
MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C {\n for (element in this) if (element is
R) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list containing all elements not matching
the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun <T>
Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {\n return filterNotTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun ByteArray.filterNot(predicate: (Byte) ->
Boolean): List<Byte> {\n return filterNotTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing
all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *
\n\npublic inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {\n return
filterNotTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the
given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun
IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> {\n return filterNotTo(ArrayList<Int>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun LongArray.filterNot(predicate: (Long) ->
Boolean): List<Long> {\n return filterNotTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun FloatArray.filterNot(predicate: (Float) ->
Boolean): List<Float> {\n return filterNotTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun DoubleArray.filterNot(predicate: (Double) ->
Boolean): List<Double> {\n return filterNotTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun BooleanArray.filterNot(predicate: (Boolean) ->
Boolean): List<Boolean> {\n return filterNotTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun CharArray.filterNot(predicate: (Char) ->
Boolean): List<Char> {\n return filterNotTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing
all elements that are not `null`.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNull\n * \n\npublic
fun <T : Any> Array<out T?>.filterNotNull(): List<T> {\n return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n *
Appends all elements that are not `null` to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNullTo\n * \n\npublic fun <C : MutableCollection<in T>, T : Any>
Array<out T?>.filterNotNullTo(destination: C): C {\n for (element in this) if (element != null)
destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given
[predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n *
\n\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterNotTo(destination: C, predicate: (T) ->
Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return

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destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in
Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Short>>
ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Float>>
FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Double>>
DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Boolean>>
BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Char>>
CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*^\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterTo(destination: C, predicate: (T) ->
Boolean): C {\n  for (element in this) if (predicate(element)) destination.add(element)\n  return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in
Byte>> ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C {\n  for (element in this) if
(predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*^\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterTo(destination: C, predicate: (Short) ->
Boolean): C {\n  for (element in this) if (predicate(element)) destination.add(element)\n  return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C {\n  for (element in this) if (predicate(element))
destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to
the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun
<C : MutableCollection<in Long>> LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {\n  for

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(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Float>>
FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {\n  for (element in this) if
(predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*^\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterTo(destination: C, predicate: (Double)
-> Boolean): C {\n  for (element in this) if (predicate(element)) destination.add(element)\n  return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in
Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C {\n  for (element in this) if
(predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*^\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterTo(destination: C, predicate: (Char) ->
Boolean): C {\n  for (element in this) if (predicate(element)) destination.add(element)\n  return
destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n *^\npublic
fun <T> Array<out T>.slice(indices: IntRange): List<T> {\n  if (indices.isEmpty()) return listOf()\n  return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n *^\npublic fun ByteArray.slice(indices: IntRange): List<Byte> {\n  if
(indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n *^\npublic
fun ShortArray.slice(indices: IntRange): List<Short> {\n  if (indices.isEmpty()) return listOf()\n  return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n *^\npublic fun IntArray.slice(indices: IntRange): List<Int> {\n  if
(indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n *^\npublic
fun LongArray.slice(indices: IntRange): List<Long> {\n  if (indices.isEmpty()) return listOf()\n  return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n *^\npublic fun FloatArray.slice(indices: IntRange): List<Float> {\n  if
(indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n *^\npublic
fun DoubleArray.slice(indices: IntRange): List<Double> {\n  if (indices.isEmpty()) return listOf()\n  return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n *^\npublic fun BooleanArray.slice(indices: IntRange): List<Boolean> {\n
if (indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n *^\npublic
fun CharArray.slice(indices: IntRange): List<Char> {\n  if (indices.isEmpty()) return listOf()\n  return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
specified [indices].\n *^\npublic fun <T> Array<out T>.slice(indices: Iterable<Int>): List<T> {\n  val size =
indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list = ArrayList<T>(size)\n  for
(index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n * Returns a list containing elements at
specified [indices].\n *^\npublic fun ByteArray.slice(indices: Iterable<Int>): List<Byte> {\n  val size =
indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list = ArrayList<Byte>(size)\n  for
(index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n * Returns a list containing elements at
specified [indices].\n *^\npublic fun ShortArray.slice(indices: Iterable<Int>): List<Short> {\n  val size =
indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list = ArrayList<Short>(size)\n
for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n *^\npublic fun IntArray.slice(indices: Iterable<Int>): List<Int> {\n  val size =

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indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Int>(size)\n for
(index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at
specified [indices].\n */\npublic fun LongArray.slice(indices: Iterable<Int>): List<Long> {\n val size =
indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Long>(size)\n
for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun FloatArray.slice(indices: Iterable<Int>): List<Float> {\n val size =
indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Float>(size)\n
for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun DoubleArray.slice(indices: Iterable<Int>): List<Double> {\n val
size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<Double>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n */\npublic fun BooleanArray.slice(indices: Iterable<Int>):
List<Boolean> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<Boolean>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n */\npublic fun CharArray.slice(indices: Iterable<Int>):
List<Char> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<Char>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns an array containing elements of this array at specified [indices].\n */\npublic fun <T>
Array<T>.sliceArray(indices: Collection<Int>): Array<T> {\n val result = arrayOfNulls(this, indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
ByteArray.sliceArray(indices: Collection<Int>): ByteArray {\n val result = ByteArray(indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
ShortArray.sliceArray(indices: Collection<Int>): ShortArray {\n val result = ShortArray(indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
IntArray.sliceArray(indices: Collection<Int>): IntArray {\n val result = IntArray(indices.size)\n var targetIndex
= 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
LongArray.sliceArray(indices: Collection<Int>): LongArray {\n val result = LongArray(indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n val result = FloatArray(indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {\n val result = DoubleArray(indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n val result = BooleanArray(indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
CharArray.sliceArray(indices: Collection<Int>): CharArray {\n val result = CharArray(indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
<T> Array<T>.sliceArray(indices: IntRange): Array<T> {\n if (indices.isEmpty()) return copyOfRange(0, 0)\n
return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at
indices in the specified [indices] range.\n */\npublic fun ByteArray.sliceArray(indices: IntRange): ByteArray {\n if

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(indices.isEmpty()) return ByteArray(0)\n    return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
ShortArray.sliceArray(indices: IntRange): ShortArray {\n    if (indices.isEmpty()) return ShortArray(0)\n    return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices
in the specified [indices] range.\n */\npublic fun IntArray.sliceArray(indices: IntRange): IntArray {\n    if
(indices.isEmpty()) return IntArray(0)\n    return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n *
Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
LongArray.sliceArray(indices: IntRange): LongArray {\n    if (indices.isEmpty()) return LongArray(0)\n    return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices
in the specified [indices] range.\n */\npublic fun FloatArray.sliceArray(indices: IntRange): FloatArray {\n    if
(indices.isEmpty()) return FloatArray(0)\n    return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n *
Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
DoubleArray.sliceArray(indices: IntRange): DoubleArray {\n    if (indices.isEmpty()) return DoubleArray(0)\n    return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at
indices in the specified [indices] range.\n */\npublic fun BooleanArray.sliceArray(indices: IntRange): BooleanArray
{\n    if (indices.isEmpty()) return BooleanArray(0)\n    return copyOfRange(indices.start, indices.endInclusive +
1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
CharArray.sliceArray(indices: IntRange): CharArray {\n    if (indices.isEmpty()) return CharArray(0)\n    return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns a list containing first [n] elements.\n */\n *
@throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.take(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<T>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.take(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Byte>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.take(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Short>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.take(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Int>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.take(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Long>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.take(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Float>(n)\n    for

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(item in this) {\n    list.add(item)\n    if (++count == n)\n        break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun DoubleArray.take(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Double>(n)\n
for (item in this) {\n    list.add(item)\n    if (++count == n)\n        break\n    }\n    return list\n}\n\n/**\n *
Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n *\npublic fun BooleanArray.take(n: Int):
List<Boolean> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return
emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list =
ArrayList<Boolean>(n)\n    for (item in this) {\n    list.add(item)\n    if (++count == n)\n        break\n    }\n
return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if
[n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic fun
CharArray.take(n: Int): List<Char> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if
(n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n
val list = ArrayList<Char>(n)\n    for (item in this) {\n    list.add(item)\n    if (++count == n)\n        break\n
    }\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun <T> Array<out T>.takeLast(n: Int): List<T>
{\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val
size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list =
ArrayList<T>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns
a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun ByteArray.takeLast(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size =
size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Byte>(n)\n
for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun ShortArray.takeLast(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size =
size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Short>(n)\n
for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun IntArray.takeLast(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size =
size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Int>(n)\n
for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun LongArray.takeLast(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size =
size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Long>(n)\n
for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun FloatArray.takeLast(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size =
size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Float>(n)\n
for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample

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samples.collections.Collections.Transformations.take\n *^\npublic fun DoubleArray.takeLast(n: Int): List<Double>
{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val
size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list =
ArrayList<Double>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n *^\npublic fun BooleanArray.takeLast(n: Int):
List<Boolean> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return
emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list
= ArrayList<Boolean>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n *^\npublic fun CharArray.takeLast(n: Int):
List<Char> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return
emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list
= ArrayList<Char>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n *
Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^\npublic inline fun <T> Array<out
T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n  for (index in lastIndex downTo 0) {\n    if
(!predicate(this[index])) {\n      return drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n * Returns a
list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^\npublic inline fun ByteArray.takeLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *^\npublic
inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\n  for (index in lastIndex
downTo 0) {\n    if (!predicate(this[index])) {\n      return drop(index + 1)\n    }\n  }\n  return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^\npublic inline fun IntArray.takeLastWhile(predicate: (Int)
-> Boolean): List<Int> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n      return
drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *^\npublic inline fun
LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {\n  for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n      return drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n * Returns
a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^\npublic inline fun FloatArray.takeLastWhile(predicate:
(Float) -> Boolean): List<Float> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *^\npublic
inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {\n  for (index in lastIndex
downTo 0) {\n    if (!predicate(this[index])) {\n      return drop(index + 1)\n    }\n  }\n  return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^\npublic inline fun
BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n  for (index in lastIndex
downTo 0) {\n    if (!predicate(this[index])) {\n      return drop(index + 1)\n    }\n  }\n  return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^\npublic inline fun CharArray.takeLastWhile(predicate:
(Char) -> Boolean): List<Char> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing first elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *^\npublic

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reverseIndex--\n } \n} \n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun
DoubleArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex =
lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n
this[reverseIndex] = tmp\n        reverseIndex--\n    } \n} \n\n/**\n * Reverses elements in the array in-place.\n
*/\npublic fun BooleanArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var
reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] =
this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    } \n} \n\n/**\n * Reverses elements in the
array in-place.\n */\npublic fun CharArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0)
return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index]
= this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    } \n} \n\n/**\n * Reverses elements of
the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun <T>
Array<T>.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex =
toIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] =
this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    } \n} \n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun
ByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex =
toIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] =
this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    } \n} \n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun
ShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex =
toIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] =
this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    } \n} \n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun
IntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex =
toIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] =
this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    } \n} \n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun
LongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex =

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toIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] =
this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.4")\n\npublic fun
FloatArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex =
toIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] =
this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.4")\n\npublic fun
DoubleArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex =
toIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] =
this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.4")\n\npublic fun
BooleanArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var
reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n
this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses
elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to
reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.4")\n\npublic fun
CharArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var
reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n
this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Returns a
list with elements in reversed order.\n *^\n\npublic fun <T> Array<out T>.reversed(): List<T> {\n    if (isEmpty())
return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with
elements in reversed order.\n *^\n\npublic fun ByteArray.reversed(): List<Byte> {\n    if (isEmpty()) return
emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements
in reversed order.\n *^\n\npublic fun ShortArray.reversed(): List<Short> {\n    if (isEmpty()) return emptyList()\n    val
list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*\n\npublic fun IntArray.reversed(): List<Int> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n *^\n\npublic fun
LongArray.reversed(): List<Long> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n *^\n\npublic fun
FloatArray.reversed(): List<Float> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n *^\n\npublic fun
DoubleArray.reversed(): List<Double> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n *^\n\npublic fun

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BooleanArray.reversed(): List<Boolean> {\n  if (isEmpty()) return emptyList()\n  val list = toMutableList()\n  list.reverse()\n  return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
CharArray.reversed(): List<Char> {\n  if (isEmpty()) return emptyList()\n  val list = toMutableList()\n  list.reverse()\n  return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic
fun <T> Array<T>.reversedArray(): Array<T> {\n  if (isEmpty()) return this\n  val result = arrayOfNulls(this,
size)\n  val lastIndex = lastIndex\n  for (i in 0..lastIndex)\n    result[lastIndex - i] = this[i]\n  return
result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun
ByteArray.reversedArray(): ByteArray {\n  if (isEmpty()) return this\n  val result = ByteArray(size)\n  val
lastIndex = lastIndex\n  for (i in 0..lastIndex)\n    result[lastIndex - i] = this[i]\n  return result\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n */\npublic fun ShortArray.reversedArray():
ShortArray {\n  if (isEmpty()) return this\n  val result = ShortArray(size)\n  val lastIndex = lastIndex\n  for (i
in 0..lastIndex)\n    result[lastIndex - i] = this[i]\n  return result\n}\n\n/**\n * Returns an array with elements of this
array in reversed order.\n */\npublic fun IntArray.reversedArray(): IntArray {\n  if (isEmpty()) return this\n  val
result = IntArray(size)\n  val lastIndex = lastIndex\n  for (i in 0..lastIndex)\n    result[lastIndex - i] = this[i]\n
return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun
LongArray.reversedArray(): LongArray {\n  if (isEmpty()) return this\n  val result = LongArray(size)\n  val
lastIndex = lastIndex\n  for (i in 0..lastIndex)\n    result[lastIndex - i] = this[i]\n  return result\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n */\npublic fun FloatArray.reversedArray():
FloatArray {\n  if (isEmpty()) return this\n  val result = FloatArray(size)\n  val lastIndex = lastIndex\n  for (i
in 0..lastIndex)\n    result[lastIndex - i] = this[i]\n  return result\n}\n\n/**\n * Returns an array with elements of this
array in reversed order.\n */\npublic fun DoubleArray.reversedArray(): DoubleArray {\n  if (isEmpty()) return
this\n  val result = DoubleArray(size)\n  val lastIndex = lastIndex\n  for (i in 0..lastIndex)\n    result[lastIndex -
i] = this[i]\n  return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic
fun BooleanArray.reversedArray(): BooleanArray {\n  if (isEmpty()) return this\n  val result =
BooleanArray(size)\n  val lastIndex = lastIndex\n  for (i in 0..lastIndex)\n    result[lastIndex - i] = this[i]\n
return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun
CharArray.reversedArray(): CharArray {\n  if (isEmpty()) return this\n  val result = CharArray(size)\n  val
lastIndex = lastIndex\n  for (i in 0..lastIndex)\n    result[lastIndex - i] = this[i]\n  return result\n}\n\n/**\n *
Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun <T>
Array<T>.shuffle(): Unit {\n  shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun ByteArray.shuffle(): Unit {\n  shuffle(Random)\n}\n\n/**\n * Randomly
shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun ShortArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun IntArray.shuffle(): Unit {\n  shuffle(Random)\n}\n\n/**\n * Randomly
shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun LongArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun FloatArray.shuffle(): Unit {\n  shuffle(Random)\n}\n\n/**\n * Randomly
shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun DoubleArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun BooleanArray.shuffle(): Unit {\n  shuffle(Random)\n}\n\n/**\n * Randomly
shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun CharArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random]
instance as the source of randomness.\n */\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.\n */\n * See:

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https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

```
*\n@SinceKotlin("1.4")\npublic fun ByteArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
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https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

```
*\n@SinceKotlin("1.4")\npublic fun ShortArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
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https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

```
*\n@SinceKotlin("1.4")\npublic fun IntArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
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https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

```
*\n@SinceKotlin("1.4")\npublic fun LongArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
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https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

```
*\n@SinceKotlin("1.4")\npublic fun FloatArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
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https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

```
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
```

https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

```
*\n@SinceKotlin("1.4")\npublic fun BooleanArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
```

https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

```
*\n@SinceKotlin("1.4")\npublic fun CharArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Sorts elements in the array in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {\n    if (size > 1) sortBy(compareBy(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n    if (size > 1) sortByDescending(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {\n
```

```

sortWith(reverseOrder())\n\n/**\n * Sorts elements in the array in-place descending according to their natural
sort order.\n */\npublic fun ByteArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun ShortArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts
elements in the array in-place descending according to their natural sort order.\n */\npublic fun
IntArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements
in the array in-place descending according to their natural sort order.\n */\npublic fun LongArray.sortDescending():
Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place
descending according to their natural sort order.\n */\npublic fun FloatArray.sortDescending(): Unit {\n    if (size >
1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending according
to their natural sort order.\n */\npublic fun DoubleArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n
reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n
*/\npublic fun CharArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n
 * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that
equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>>
Array<out T>.sorted(): List<T> {\n    return sortedArray().asList()\n}\n\n/**\n * Returns a list of all elements sorted
according to their natural sort order.\n */\npublic fun ByteArray.sorted(): List<Byte> {\n    return
toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural
sort order.\n */\npublic fun ShortArray.sorted(): List<Short> {\n    return toTypedArray().apply { sort()
}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun
IntArray.sorted(): List<Int> {\n    return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all
elements sorted according to their natural sort order.\n */\npublic fun LongArray.sorted(): List<Long> {\n    return
toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural
sort order.\n */\npublic fun FloatArray.sorted(): List<Float> {\n    return toTypedArray().apply { sort()
}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun
DoubleArray.sorted(): List<Double> {\n    return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a
list of all elements sorted according to their natural sort order.\n */\npublic fun CharArray.sorted(): List<Char> {\n
return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted
according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<T>.sortedArray(): Array<T> {\n
if (isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun ByteArray.sortedArray(): ByteArray {\n    if
(isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun ShortArray.sortedArray(): ShortArray {\n    if
(isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun IntArray.sortedArray(): IntArray {\n    if
(isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun LongArray.sortedArray(): LongArray {\n    if
(isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun FloatArray.sortedArray(): FloatArray {\n    if
(isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun DoubleArray.sortedArray(): DoubleArray {\n
if (isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements
of this array sorted according to their natural sort order.\n */\npublic fun CharArray.sortedArray(): CharArray {\n
if (isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>>
Array<T>.sortedArrayDescending(): Array<T> {\n    if (isEmpty()) return this\n    return this.copyOf().apply {

```


DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {\n return
 sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order
 of the value returned by specified [selector] function.\n * \n * @sample
 samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>>
 BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {\n return
 sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order
 of the value returned by specified [selector] function.\n * \n * @sample
 samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>>
 CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {\n return
 sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural
 sort order of the value returned by specified [selector] function.\n * \n * The sort is `_stable_`. It means that equal
 elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>>
 Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n return
 sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending
 according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R :
 Comparable<R>> ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n return
 sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending
 according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R :
 Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n return
 sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending
 according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R :
 Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n return
 sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending
 according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R :
 Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n return
 sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending
 according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R :
 Comparable<R>> FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {\n return
 sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending
 according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R :
 Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {\n
 return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending
 according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R :
 Comparable<R>> BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> {\n
 return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending
 according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R :
 Comparable<R>> CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {\n return
 sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending
 according to their natural sort order.\n * \n * The sort is `_stable_`. It means that equal elements preserve their order
 relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sortedDescending():
 List<T> {\n return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted descending
 according to their natural sort order.\n */\npublic fun ByteArray.sortedDescending(): List<Byte> {\n return
 copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their
 natural sort order.\n */\npublic fun ShortArray.sortedDescending(): List<Short> {\n return copyOf().apply { sort()
 }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n
 */\npublic fun IntArray.sortedDescending(): List<Int> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n
 * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun
 LongArray.sortedDescending(): List<Long> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns

a list of all elements sorted descending according to their natural sort order.
`FloatArray.sortedDescending(): List<Float> { \n return copyOf().apply { sort() }.reversed()\n }\n\n/** \n * Returns a list of all elements sorted descending according to their natural sort order. \n */ \n public fun`

`DoubleArray.sortedDescending(): List<Double> { \n return copyOf().apply { sort() }.reversed()\n }\n\n/** \n * Returns a list of all elements sorted descending according to their natural sort order. \n */ \n public fun`

`CharArray.sortedDescending(): List<Char> { \n return copyOf().apply { sort() }.reversed()\n }\n\n/** \n * Returns a list of all elements sorted according to the specified [comparator]. \n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. \n */ \n public fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> { \n return`

`sortedArrayWith(comparator).asList()\n }\n\n/** \n * Returns a list of all elements sorted according to the specified [comparator]. \n */ \n public fun`

`ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> { \n return toTypedArray().apply { sortWith(comparator) }.asList()\n }\n\n/** \n * Returns a list of all elements sorted according to the specified [comparator]. \n */ \n public fun`

`ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> { \n return toTypedArray().apply { sortWith(comparator) }.asList()\n }\n\n/** \n * Returns a list of all elements sorted according to the specified [comparator]. \n */ \n public fun`

`IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> { \n return toTypedArray().apply { sortWith(comparator) }.asList()\n }\n\n/** \n * Returns a list of all elements sorted according to the specified [comparator]. \n */ \n public fun`

`LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> { \n return toTypedArray().apply { sortWith(comparator) }.asList()\n }\n\n/** \n * Returns a list of all elements sorted according to the specified [comparator]. \n */ \n public fun`

`FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> { \n return toTypedArray().apply { sortWith(comparator) }.asList()\n }\n\n/** \n * Returns a list of all elements sorted according to the specified [comparator]. \n */ \n public fun`

`DoubleArray.sortedWith(comparator: Comparator<in Double>): List<Double> { \n return toTypedArray().apply { sortWith(comparator) }.asList()\n }\n\n/** \n * Returns a list of all elements sorted according to the specified [comparator]. \n */ \n public fun`

`BooleanArray.sortedWith(comparator: Comparator<in Boolean>): List<Boolean> { \n return toTypedArray().apply { sortWith(comparator) }.asList()\n }\n\n/** \n * Returns a list of all elements sorted according to the specified [comparator]. \n */ \n public fun`

`CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> { \n return toTypedArray().apply { sortWith(comparator) }.asList()\n }\n\n/** \n * Returns a [List] that wraps the original array. \n */ \n public expect fun <T> Array<out T>.asList(): List<T> \n\n/** \n * Returns a [List] that wraps the original array. \n */ \n public expect fun`

`ByteArray.asList(): List<Byte> \n\n/** \n * Returns a [List] that wraps the original array. \n */ \n public expect fun`

`ShortArray.asList(): List<Short> \n\n/** \n * Returns a [List] that wraps the original array. \n */ \n public expect fun`

`IntArray.asList(): List<Int> \n\n/** \n * Returns a [List] that wraps the original array. \n */ \n public expect fun`

`LongArray.asList(): List<Long> \n\n/** \n * Returns a [List] that wraps the original array. \n */ \n public expect fun`

`FloatArray.asList(): List<Float> \n\n/** \n * Returns a [List] that wraps the original array. \n */ \n public expect fun`

`DoubleArray.asList(): List<Double> \n\n/** \n * Returns a [List] that wraps the original array. \n */ \n public expect fun`

`BooleanArray.asList(): List<Boolean> \n\n/** \n * Returns a [List] that wraps the original array. \n */ \n public expect fun`

`CharArray.asList(): List<Char> \n\n/** \n * Returns true if the two specified arrays are deeply equal to one another, \n * i.e. contain the same number of the same elements in the same order. \n * \n * If two corresponding elements are nested arrays, they are also compared deeply. \n * If any of arrays contains itself on any nesting level the behavior is undefined. \n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function. \n * For floating point numbers it means that NaN is equal to itself and -0.0 is not equal to 0.0. \n */ \n @SinceKotlin("1.1") \n @kotlin.internal.LowPriorityInOverloadResolution \n public expect`

`infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean \n\n/** \n * Returns true if the two specified arrays are deeply equal to one another, \n * i.e. contain the same number of the same elements in the same order. \n * \n * The specified arrays are also considered deeply equal if both are null. \n * \n * If two corresponding elements are nested arrays, they are also compared deeply. \n * If any of arrays contains itself on any nesting level the behavior is undefined. \n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function. \n * For floating point numbers it means that NaN is equal to itself and -0.0 is not`

equal to `0.0`.
`public expect infix fun <T> Array<out T>?.contentDeepEquals(other: Array<out T>?): Boolean`
Returns a hash code based on the contents of this array as if it is [List].
Nested arrays are treated as lists too.
If any of arrays contains itself on any nesting level the behavior is undefined.
`public expect fun <T> Array<out T>.contentDeepHashCode(): Int`
Returns a hash code based on the contents of this array as if it is [List].
Nested arrays are treated as lists too.
If any of arrays contains itself on any nesting level the behavior is undefined.
`public expect fun <T> Array<out T>?.contentDeepHashCode(): Int`
Returns a string representation of the contents of this array as if it is a [List].
Nested arrays are treated as lists too.
If any of arrays contains itself on any nesting level that reference is rendered as `[...]` to prevent recursion.
@sample
samples.collections.Arrays.ContentOperations.contentDeepToString
`public expect fun <T> Array<out T>.contentDeepToString(): String`
Returns a string representation of the contents of this array as if it is a [List].
Nested arrays are treated as lists too.
If any of arrays contains itself on any nesting level that reference is rendered as `[...]` to prevent recursion.
@sample
samples.collections.Arrays.ContentOperations.contentDeepToString
`public expect fun <T> Array<out T>?.contentDeepToString(): String`
Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
The elements are compared for equality with the [equals][Any.equals] function.
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
`public expect infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean`
Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
The elements are compared for equality with the [equals][Any.equals] function.
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
`public expect infix fun ByteArray.contentEquals(other: ByteArray): Boolean`
Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
The elements are compared for equality with the [equals][Any.equals] function.
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
`public expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean`
Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
The elements are compared for equality with the [equals][Any.equals] function.
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
`public expect infix fun IntArray.contentEquals(other: IntArray): Boolean`
Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
The elements are compared for equality with the [equals][Any.equals] function.
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
`public expect infix fun LongArray.contentEquals(other: LongArray): Boolean`
Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
The elements are compared for equality with the [equals][Any.equals] function.
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")

expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun CharArray.contentEquals(other: CharArray): Boolean\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin("1.4")\npublic expect infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin("1.4")\npublic expect infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin("1.4")\npublic expect infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin("1.4")\npublic expect infix fun IntArray?.contentEquals(other: IntArray?): Boolean\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin("1.4")\npublic expect infix fun LongArray?.contentEquals(other: LongArray?): Boolean\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin("1.4")\npublic expect infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin("1.4")\npublic expect infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is

equal to itself and `-0.0` is not equal to `0.0`.
`BooleanArray?.contentEquals(other: BooleanArray?): Boolean`
Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the `[equals][Any.equals]` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
`CharArray?.contentHashCode(): Boolean`
Returns a hash code based on the contents of this array as if it is `[List]`.
`Array<out T>.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`ByteArray.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`ShortArray.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`IntArray.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`LongArray.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`FloatArray.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`DoubleArray.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`BooleanArray.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`CharArray.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`<T> Array<out T>?.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`ByteArray?.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`ShortArray?.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`IntArray?.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`LongArray?.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`FloatArray?.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`DoubleArray?.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`BooleanArray?.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is `[List]`.
`CharArray?.contentHashCode(): Int`
Returns a string representation of the contents of the specified array as if it is `[List]`.
`samples.collections.Arrays.ContentOperations.contentToString`

FloatArray?.contentToString(): String\n\n**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin("1.4")\npublic expect fun DoubleArray?.contentToString(): String\n\n**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin("1.4")\npublic expect fun BooleanArray?.contentToString(): String\n\n**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin("1.4")\npublic expect fun CharArray?.contentToString(): String\n\n**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin("1.3")\npublic expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>\n\n**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin("1.3")\npublic expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray\n\n**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin("1.3")\npublic expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray\n\n**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n

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*\n@SinceKotlin("1.3")\npublic expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): IntArray\n\n/**\n * Copies this array or its subrange into the [destination]
array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the
subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n *
@param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n
*\n * @return the [destination] array.\n */\n@SinceKotlin("1.3")\npublic expect fun
LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
LongArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's
allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy,
0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index
is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin("1.3")\npublic expect fun
FloatArray.copyInto(destination: FloatArray, destinationOffset: Int =
0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n\n/**\n * Copies this array or its subrange into the
[destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even
specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy
to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param
startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive)
of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n
*\n * @return the [destination] array.\n */\n@SinceKotlin("1.3")\npublic expect fun
DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
size): DoubleArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n *
\n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy,
0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index
is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin("1.3")\npublic expect fun
BooleanArray.copyInto(destination: BooleanArray, destinationOffset:
Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray\n\n/**\n * Copies this array or its subrange into the
[destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even
specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy
to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param
startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive)
of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n
*\n * @return the [destination] array.\n */

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of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n * \n\n@SinceKotlin("1.3")\npublic expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect fun <T> Array<T>.copyOf(): Array<T>\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n\npublic expect fun ByteArray.copyOf(): ByteArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n\npublic expect fun ShortArray.copyOf(): ShortArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n\npublic expect fun IntArray.copyOf(): IntArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n\npublic expect fun LongArray.copyOf(): LongArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n\npublic expect fun FloatArray.copyOf(): FloatArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n\npublic expect fun DoubleArray.copyOf(): DoubleArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n\npublic expect fun BooleanArray.copyOf(): BooleanArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n\npublic expect fun CharArray.copyOfOf(newSize: Int): CharArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * \n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * \n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n * \n\npublic expect fun ByteArray.copyOfOf(newSize: Int): ByteArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * \n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * \n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n * \n\npublic expect fun ShortArray.copyOfOf(newSize: Int): ShortArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * \n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * \n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n * \n\npublic expect fun IntArray.copyOfOf(newSize: Int): IntArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * \n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * \n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n * \n\npublic expect fun LongArray.copyOfOf(newSize: Int): LongArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * \n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the

[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (`\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\u0000`) values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n *\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws

IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * /\npublic expect fun
 LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray\n\n/**\n * Returns a new array which is a copy
 of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n *
 @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if
 [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
 IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * /\npublic expect fun
 FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray\n\n/**\n * Returns a new array which is a copy
 of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n *
 @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if
 [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
 IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * /\npublic expect fun
 DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray\n\n/**\n * Returns a new array which is a
 copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to
 copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException
 if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
 IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * /\npublic expect fun
 BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray\n\n/**\n * Returns a new array which is a
 copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to
 copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException
 if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
 IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * /\npublic expect fun
 CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n/**\n * Fills this array or its subrange with the
 specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n *
 @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
 IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
 @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *
 @since Kotlin("1.3")\n\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or
 its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill,
 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n *
 @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
 array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *
 @since Kotlin("1.3")\n\npublic expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size):
 Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the
 start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill,
 size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
 is
 greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *
 @since Kotlin("1.3")\n\npublic expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int =
 size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex
 the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill,
 size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
 is
 greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
 [toIndex].\n * @since Kotlin("1.3")\n\npublic expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int
 = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
 fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
 to fill,
 size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
 or [toIndex]
 is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
 than [toIndex].\n * @since Kotlin("1.3")\n\npublic expect fun LongArray.fill(element: Long, fromIndex: Int = 0,
 toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n *

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@param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range
(exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less
than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is
greater than [toIndex].\n *^\n@SinceKotlin("1.3")\npublic expect fun FloatArray.fill(element: Float, fromIndex: Int
= 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n *
@param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range
(exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less
than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is
greater than [toIndex].\n *^\n@SinceKotlin("1.3")\npublic expect fun DoubleArray.fill(element: Double,
fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element]
value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end
of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.3")\npublic expect fun
BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its
subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0
by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*^\n@SinceKotlin("1.3")\npublic expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size):
Unit\n\n/**\n * Returns the range of valid indices for the array.\n *^\npublic val <T> Array<out T>.indices:
IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *^\npublic
val ByteArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for
the array.\n *^\npublic val ShortArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the
range of valid indices for the array.\n *^\npublic val IntArray.indices: IntRange\n    get() = IntRange(0,
lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *^\npublic val LongArray.indices:
IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *^\npublic
val FloatArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for
the array.\n *^\npublic val DoubleArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the
range of valid indices for the array.\n *^\npublic val BooleanArray.indices: IntRange\n    get() = IntRange(0,
lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *^\npublic val CharArray.indices: IntRange\n
    get() = IntRange(0, lastIndex)\n\n/**\n * Returns `true` if the array is empty.\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isEmpty(): Boolean {\n    return size ==
0\n}\n\n/**\n * Returns `true` if the array is empty.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.isEmpty(): Boolean {\n    return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isEmpty(): Boolean {\n    return size == 0\n}\n\n/**\n
* Returns `true` if the array is empty.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isEmpty():
Boolean {\n    return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isEmpty(): Boolean {\n    return size == 0\n}\n\n/**\n
* Returns `true` if the array is empty.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isEmpty():
Boolean {\n    return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isEmpty(): Boolean {\n    return size ==
0\n}\n\n/**\n * Returns `true` if the array is empty.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.isEmpty(): Boolean {\n    return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isEmpty(): Boolean {\n    return size == 0\n}\n\n/**\n
* Returns `true` if the array is not empty.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out
T>.isNotEmpty(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isNotEmpty(): Boolean {\n    return

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!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun ShortArray.isNotEmpty(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isNotEmpty(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun LongArray.isNotEmpty(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isNotEmpty(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun DoubleArray.isNotEmpty(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isNotEmpty(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun CharArray.isNotEmpty(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns the last valid index for the
array.\n */\npublic val <T> Array<out T>.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index
for the array.\n */\npublic val ByteArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for
the array.\n */\npublic val ShortArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for
the array.\n */\npublic val IntArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for
the array.\n */\npublic val LongArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for
the array.\n */\npublic val FloatArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for
the array.\n */\npublic val DoubleArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for
the array.\n */\npublic val BooleanArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for
the array.\n */\npublic val CharArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns an array containing all
elements of the original array and then the given [element].\n */\n\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun <T> Array<T>.plus(element: T):
Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n\npublic expect operator fun ByteArray.plus(element: Byte): ByteArray\n\n/**\n * Returns an array containing all
elements of the original array and then the given [element].\n */\n\npublic expect operator fun
ShortArray.plus(element: Short): ShortArray\n\n/**\n * Returns an array containing all elements of the original
array and then the given [element].\n */\n\npublic expect operator fun IntArray.plus(element: Int): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n\npublic expect
operator fun LongArray.plus(element: Long): LongArray\n\n/**\n * Returns an array containing all elements of the
original array and then the given [element].\n */\n\npublic expect operator fun FloatArray.plus(element: Float):
FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n\npublic expect operator fun DoubleArray.plus(element: Double): DoubleArray\n\n/**\n * Returns an array
containing all elements of the original array and then the given [element].\n */\n\npublic expect operator fun
BooleanArray.plus(element: Boolean): BooleanArray\n\n/**\n * Returns an array containing all elements of the
original array and then the given [element].\n */\n\npublic expect operator fun CharArray.plus(element: Char):
CharArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the
given [elements] collection.\n */\n\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun <T>
Array<T>.plus(elements: Collection<T>): Array<T>\n\n/**\n * Returns an array containing all elements of the
original array and then all elements of the given [elements] collection.\n */\n\npublic expect operator fun
ByteArray.plus(elements: Collection<Byte>): ByteArray\n\n/**\n * Returns an array containing all elements of the
original array and then all elements of the given [elements] collection.\n */\n\npublic expect operator fun
ShortArray.plus(elements: Collection<Short>): ShortArray\n\n/**\n * Returns an array containing all elements of
the original array and then all elements of the given [elements] collection.\n */\n\npublic expect operator fun
IntArray.plus(elements: Collection<Int>): IntArray\n\n/**\n * Returns an array containing all elements of the
original array and then all elements of the given [elements] collection.\n */\n\npublic expect operator fun
LongArray.plus(elements: Collection<Long>): LongArray\n\n/**\n * Returns an array containing all elements of the
original array and then all elements of the given [elements] collection.\n */\n\npublic expect operator fun
FloatArray.plus(elements: Collection<Float>): FloatArray\n\n/**\n * Returns an array containing all elements of the

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original array and then all elements of the given [elements] collection.

`public expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray`

Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

`public expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray`

Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

`public expect operator fun CharArray.plus(elements: Collection<Char>): CharArray`

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`@Suppress("NO_ACTUAL_FOR_EXPECT") public expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>`

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`public expect operator fun ByteArray.plus(elements: ByteArray): ByteArray`

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`public expect operator fun ShortArray.plus(elements: ShortArray): ShortArray`

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`public expect operator fun IntArray.plus(elements: IntArray): IntArray`

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`public expect operator fun LongArray.plus(elements: LongArray): LongArray`

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`public expect operator fun FloatArray.plus(elements: FloatArray): FloatArray`

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`public expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray`

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`public expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray`

Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`public expect operator fun CharArray.plus(elements: CharArray): CharArray`

Returns an array containing all elements of the original array and then the given [element].

`@Suppress("NO_ACTUAL_FOR_EXPECT") public expect fun <T> Array<T>.plusElement(element: T): Array<T>`

Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`public expect fun IntArray.sort(): Unit`

Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`public expect fun LongArray.sort(): Unit`

Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`public expect fun ByteArray.sort(): Unit`

Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`public expect fun ShortArray.sort(): Unit`

Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`public expect fun DoubleArray.sort(): Unit`

Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`public expect fun FloatArray.sort(): Unit`

Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`public expect fun CharArray.sort(): Unit`

Sorts the array in-place according to the natural order of its elements.

The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

`@sample samples.collections.Arrays.Sorting.sortArrayOfComparable`

`public expect fun <T> Comparable<T>> Array<out T>.sort(): Unit`

Sorts a range in the array in-place.

The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

`@param fromIndex` the start of the range (inclusive) to sort, 0 by default.

`@param toIndex` the end of the range (exclusive) to sort, size of this array by default.

`@throws IndexOutOfBoundsException` if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

`@throws IllegalArgumentException` if [fromIndex] is greater than [toIndex].

`@sample samples.collections.Arrays.Sorting.sortRangeArrayOfComparable`

`@SinceKotlin("1.4") public expect fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit`

Sorts a range in the array in-place.

`@param fromIndex` the start of the range (inclusive) to sort, 0 by default.

`@param toIndex` the end of the range (exclusive) to sort, size of this array by default.

`@throws`

IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
 @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
 samples.collections.Arrays.Sorting.sortRangeOfArray\n * \n * @SinceKotlin("1.4")\n * public expect fun
 ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n * \n * \n * Sorts a range in the array in-place.\n * \n *
 @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range
 (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
 less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
 [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n *
 * \n * @SinceKotlin("1.4")\n * public expect fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n * \n * \n *
 * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by
 default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
 IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
 @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
 samples.collections.Arrays.Sorting.sortRangeOfArray\n * \n * @SinceKotlin("1.4")\n * public expect fun
 IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n * \n * \n * Sorts a range in the array in-place.\n * \n *
 @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range
 (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
 less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
 [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n *
 * \n * @SinceKotlin("1.4")\n * public expect fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n * \n * \n *
 * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by
 default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
 IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
 @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
 samples.collections.Arrays.Sorting.sortRangeOfArray\n * \n * @SinceKotlin("1.4")\n * public expect fun
 FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n * \n * \n * Sorts a range in the array in-place.\n * \n *
 @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range
 (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
 less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
 [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n *
 * \n * @SinceKotlin("1.4")\n * public expect fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size):
 Unit\n * \n * \n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to
 sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n *
 @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
 array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
 samples.collections.Arrays.Sorting.sortRangeOfArray\n * \n * @SinceKotlin("1.4")\n * public expect fun
 CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n * \n * \n * Sorts elements of the array in the specified
 range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * The sort is
 stable. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param
 fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
 \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
 this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
 * \n * @SinceKotlin("1.4")\n * public fun <T : Comparable<T>> Array<out T>.sortDescending(fromIndex: Int,
 toIndex: Int): Unit { \n sortWith(reverseOrder(), fromIndex, toIndex)\n } \n * \n * \n * Sorts elements of the array in
 the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n *
 @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to
 sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
 size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n

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*\n@SinceKotlin("1.4")\npublic fun ByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n  reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified\n
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param\n
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of\n
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
\n*\n@SinceKotlin("1.4")\npublic fun ShortArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n  reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified\n
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param\n
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of\n
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
\n*\n@SinceKotlin("1.4")\npublic fun IntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n  reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified\n
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param\n
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of\n
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
\n*\n@SinceKotlin("1.4")\npublic fun LongArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n  reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified\n
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param\n
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of\n
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
\n*\n@SinceKotlin("1.4")\npublic fun FloatArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n  reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified\n
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param\n
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of\n
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
\n*\n@SinceKotlin("1.4")\npublic fun DoubleArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n  reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified\n
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param\n
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of\n
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
\n*\n@SinceKotlin("1.4")\npublic fun CharArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n  reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts the array in-place according to the\n
order specified by the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their\n
order relative to each other after sorting.\n */\n\npublic expect fun <T> Array<out T>.sortWith(comparator:\n
Comparator<in T>): Unit\n\n/**\n * Sorts a range in the array in-place with the given [comparator].\n * \n * The\n
sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n *
\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range\n
(exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is\n
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if\n
[fromIndex] is greater than [toIndex].\n */\n\npublic expect fun <T> Array<out T>.sortWith(comparator:\n
Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Returns an array of Boolean containing\n
all of the elements of this generic array.\n */\n\npublic fun Array<out Boolean>.toBooleanArray(): BooleanArray {\n

```

```

return BooleanArray(size) { index -> this[index] } } \n \n /** \n * Returns an array of Byte containing all of the
elements of this generic array. \n */ \n public fun Array<out Byte>.toByteArray(): ByteArray { \n return
ByteArray(size) { index -> this[index] } } \n \n /** \n * Returns an array of Char containing all of the elements of this
generic array. \n */ \n public fun Array<out Char>.toCharArray(): CharArray { \n return CharArray(size) { index ->
this[index] } } \n \n /** \n * Returns an array of Double containing all of the elements of this generic array. \n
*/ \n public fun Array<out Double>.toDoubleArray(): DoubleArray { \n return DoubleArray(size) { index ->
this[index] } } \n \n /** \n * Returns an array of Float containing all of the elements of this generic array. \n
*/ \n public fun Array<out Float>.toFloatArray(): FloatArray { \n return FloatArray(size) { index -> this[index] } } \n \n /** \n
Returns an array of Int containing all of the elements of this generic array. \n */ \n public fun Array<out
Int>.toIntArray(): IntArray { \n return IntArray(size) { index -> this[index] } } \n \n /** \n * Returns an array of
Long containing all of the elements of this generic array. \n */ \n public fun Array<out Long>.toLongArray():
LongArray { \n return LongArray(size) { index -> this[index] } } \n \n /** \n * Returns an array of Short containing
all of the elements of this generic array. \n */ \n public fun Array<out Short>.toShortArray(): ShortArray { \n return
ShortArray(size) { index -> this[index] } } \n \n /** \n * Returns a *typed* object array containing all of the elements
of this primitive array. \n */ \n public expect fun ByteArray.toTypedArray(): Array<Byte> \n \n /** \n * Returns a
*typed* object array containing all of the elements of this primitive array. \n */ \n public expect fun
ShortArray.toTypedArray(): Array<Short> \n \n /** \n * Returns a *typed* object array containing all of the elements
of this primitive array. \n */ \n public expect fun IntArray.toTypedArray(): Array<Int> \n \n /** \n * Returns a *typed*
object array containing all of the elements of this primitive array. \n */ \n public expect fun
LongArray.toTypedArray(): Array<Long> \n \n /** \n * Returns a *typed* object array containing all of the elements
of this primitive array. \n */ \n public expect fun FloatArray.toTypedArray(): Array<Float> \n \n /** \n * Returns a
*typed* object array containing all of the elements of this primitive array. \n */ \n public expect fun
DoubleArray.toTypedArray(): Array<Double> \n \n /** \n * Returns a *typed* object array containing all of the
elements of this primitive array. \n */ \n public expect fun BooleanArray.toTypedArray(): Array<Boolean> \n \n /** \n
Returns a *typed* object array containing all of the elements of this primitive array. \n */ \n public expect fun
CharArray.toTypedArray(): Array<Char> \n \n /** \n * Returns a [Map] containing key-value pairs provided by
[transform] function \n * applied to elements of the given array. \n * \n * If any of two pairs would have the same key
the last one gets added to the map. \n * \n * The returned map preserves the entry iteration order of the original
array. \n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives \n */ \n public inline
fun <T, K, V> Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> { \n val capacity =
mapCapacity(size).coerceAtLeast(16) \n return associateTo(LinkedHashMap<K, V>(capacity),
transform) } \n \n /** \n * Returns a [Map] containing key-value pairs provided by [transform] function \n * applied to
elements of the given array. \n * \n * If any of two pairs would have the same key the last one gets added to the
map. \n * \n * The returned map preserves the entry iteration order of the original array. \n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives \n */ \n public inline fun <K, V>
ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> { \n val capacity =
mapCapacity(size).coerceAtLeast(16) \n return associateTo(LinkedHashMap<K, V>(capacity),
transform) } \n \n /** \n * Returns a [Map] containing key-value pairs provided by [transform] function \n * applied to
elements of the given array. \n * \n * If any of two pairs would have the same key the last one gets added to the
map. \n * \n * The returned map preserves the entry iteration order of the original array. \n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives \n */ \n public inline fun <K, V>
ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> { \n val capacity =
mapCapacity(size).coerceAtLeast(16) \n return associateTo(LinkedHashMap<K, V>(capacity),
transform) } \n \n /** \n * Returns a [Map] containing key-value pairs provided by [transform] function \n * applied to
elements of the given array. \n * \n * If any of two pairs would have the same key the last one gets added to the
map. \n * \n * The returned map preserves the entry iteration order of the original array. \n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives \n */ \n public inline fun <K, V>
IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> { \n val capacity =

```

```

mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\npublic inline fun <K, V>
LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\npublic inline fun <K, V>
FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\npublic inline fun <K, V>
DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\npublic inline fun <K, V>
BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\npublic inline fun <K, V>
CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <T, K>
Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, T>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Byte>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration

```

```

order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Short>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Int>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Long>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Float>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Double>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Boolean>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Char>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by
[keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key

```

returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {\n
val capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V>
{\n  val capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by

```


[valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

The returned map preserves the entry iteration order of the original array.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
```

public inline fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V> {

```
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
}
```

Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

The returned map preserves the entry iteration order of the original array.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
```

public inline fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {

```
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
}
```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
```

public inline fun <T, K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {

```
    for (element in this)
        destination.put(keySelector(element), element)
    return destination
}
```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
```

public inline fun <K, M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {

```
    for (element in this)
        destination.put(keySelector(element), element)
    return destination
}
```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
```

public inline fun <K, M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {

```
    for (element in this)
        destination.put(keySelector(element), element)
    return destination
}
```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
```

public inline fun <K, M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {

```
    for (element in this)
        destination.put(keySelector(element), element)
    return destination
}
```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
```

public inline fun <K, M : MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {

```
    for (element in this)
        destination.put(keySelector(element), element)
    return destination
}
```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
```

public inline fun <K,

```

M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {
  for (element in this) {
    destination.put(keySelector(element), element)
  }
  return destination
}
Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the
[keySelector] function applied to each element of the given array and value is the element itself.
If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M
{
  for (element in this) {
    destination.put(keySelector(element), element)
  }
  return destination
}
Populates and returns the [destination] mutable map with key-value pairs, where key is
provided by the [keySelector] function applied to each element of the given array and value is the element
itself.
If any two elements would have the same key returned by [keySelector] the last one gets added to the
map.
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M, keySelector:
(Boolean) -> K): M {
  for (element in this) {
    destination.put(keySelector(element), element)
  }
  return destination
}
Populates and returns the [destination] mutable map with key-value pairs, where
key is provided by the [keySelector] function applied to each element of the given array and value is the element
itself.
If any two elements would have the same key returned by [keySelector] the last one gets added to the
map.
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) ->
K): M {
  for (element in this) {
    destination.put(keySelector(element), element)
  }
  return destination
}
Populates and returns the [destination] mutable map with key-value pairs, where key is
provided by the [keySelector] function and value is provided by the [valueTransform] function applied to
elements of the given array.
If any two elements would have the same key returned by [keySelector] the last
one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
public inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -
> K, valueTransform: (T) -> V): M {
  for (element in this) {
    destination.put(keySelector(element),
valueTransform(element))
  }
  return destination
}
Populates and returns the [destination] mutable
map with key-value pairs, where key is provided by the [keySelector] function and value is provided by
the [valueTransform] function applied to elements of the given array.
If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
public inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) ->
K, valueTransform: (Byte) -> V): M {
  for (element in this) {
    destination.put(keySelector(element),
valueTransform(element))
  }
  return destination
}
Populates and returns the [destination] mutable
map with key-value pairs, where key is provided by the [keySelector] function and value is provided by
the [valueTransform] function applied to elements of the given array.
If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
public inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) ->
K, valueTransform: (Short) -> V): M {
  for (element in this) {
    destination.put(keySelector(element),
valueTransform(element))
  }
  return destination
}
Populates and returns the [destination] mutable
map with key-value pairs, where key is provided by the [keySelector] function and value is provided by
the [valueTransform] function applied to elements of the given array.
If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
public inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K,
valueTransform: (Int) -> V): M {
  for (element in this) {
    destination.put(keySelector(element),

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valueTransform(element))\n } return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by
the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) ->
K, valueTransform: (Long) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by
the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) ->
K, valueTransform: (Float) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by
the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector:
(Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector]
function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n *
\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *
\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n
*/\npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M,
keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector]
function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n *
\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *
\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n
*/\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector:
(Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) ->
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {\n for
(element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each

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element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \n public
inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) ->
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return
destination}\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \n public inline fun <K, V, M :
MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {\n for
(element in this) {\n destination += transform(element)\n }\n return destination}\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \n public
inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) ->
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return
destination}\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \n public inline fun <K, V, M :
MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {\n for
(element in this) {\n destination += transform(element)\n }\n return destination}\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \n public
inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) ->
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return
destination}\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \n public inline fun <K, V, M :
MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {\n
for (element in this) {\n destination += transform(element)\n }\n return destination}\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \n public
inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) ->
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return
destination}\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced
by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets
added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n * \n @SinceKotlin("1.4")\n public inline
fun <K, V> Array<out K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result =
LinkedHashMap<K, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n * \n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <V>

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ByteArray.associateWith(valueSelector: (Byte) -> V): Map<Byte, V> {\n    val result = LinkedHashMap<Byte,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ShortArray.associateWith(valueSelector: (Short) -> V): Map<Short, V> {\n    val result = LinkedHashMap<Short,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
IntArray.associateWith(valueSelector: (Int) -> V): Map<Int, V> {\n    val result = LinkedHashMap<Int,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
LongArray.associateWith(valueSelector: (Long) -> V): Map<Long, V> {\n    val result = LinkedHashMap<Long,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
FloatArray.associateWith(valueSelector: (Float) -> V): Map<Float, V> {\n    val result = LinkedHashMap<Float,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
DoubleArray.associateWith(valueSelector: (Double) -> V): Map<Double, V> {\n    val result =
LinkedHashMap<Double, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
BooleanArray.associateWith(valueSelector: (Boolean) -> V): Map<Boolean, V> {\n    val result =
LinkedHashMap<Boolean, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n

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*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
CharArray.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n    val result = LinkedHashMap<Char,
V>(mapCapacity(size.coerceAtMost(128)).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function
applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
 * @sample samples.collections.Collections.Transformations.associateWithTo\n *\n@SinceKotlin("1.4")\npublic
inline fun <K, V, M : MutableMap<in K, in V>> Array<out K>.associateWithTo(destination: M, valueSelector: (K)
-> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
 * @sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Byte, in V>>
ByteArray.associateWithTo(destination: M, valueSelector: (Byte) -> V): M {\n    for (element in this) {\n
destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Short, in V>>
ShortArray.associateWithTo(destination: M, valueSelector: (Short) -> V): M {\n    for (element in this) {\n
destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Int, in V>>
IntArray.associateWithTo(destination: M, valueSelector: (Int) -> V): M {\n    for (element in this) {\n
destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Long, in V>>
LongArray.associateWithTo(destination: M, valueSelector: (Long) -> V): M {\n    for (element in this) {\n
destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Float, in V>>
FloatArray.associateWithTo(destination: M, valueSelector: (Float) -> V): M {\n    for (element in this) {\n
destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n

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*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Double, in V>>
DoubleArray.associateWithTo(destination: M, valueSelector: (Double) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Boolean, in
V>> BooleanArray.associateWithTo(destination: M, valueSelector: (Boolean) -> V): M {\n  for (element in this)
{\n  destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the
element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements
are equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Char, in V>>
CharArray.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n/**\n * Appends all elements to
the given [destination] collection.\n *\npublic fun <T, C : MutableCollection<in T>> Array<out
T>.toCollection(destination: C): C {\n  for (item in this) {\n  destination.add(item)\n  }\n  return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n *\npublic fun <C :
MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {\n  for (item in this) {\n
destination.add(item)\n  }\n  return destination\n}\n\n/**\n * Appends all elements to the given [destination]
collection.\n *\npublic fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {\n  for
(item in this) {\n  destination.add(item)\n  }\n  return destination\n}\n\n/**\n * Appends all elements to the
given [destination] collection.\n *\npublic fun <C : MutableCollection<in Int>> IntArray.toCollection(destination:
C): C {\n  for (item in this) {\n  destination.add(item)\n  }\n  return destination\n}\n\n/**\n * Appends all
elements to the given [destination] collection.\n *\npublic fun <C : MutableCollection<in Long>>
LongArray.toCollection(destination: C): C {\n  for (item in this) {\n  destination.add(item)\n  }\n  return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n *\npublic fun <C :
MutableCollection<in Float>> FloatArray.toCollection(destination: C): C {\n  for (item in this) {\n
destination.add(item)\n  }\n  return destination\n}\n\n/**\n * Appends all elements to the given [destination]
collection.\n *\npublic fun <C : MutableCollection<in Double>> DoubleArray.toCollection(destination: C): C {\n
for (item in this) {\n  destination.add(item)\n  }\n  return destination\n}\n\n/**\n * Appends all elements to the
given [destination] collection.\n *\npublic fun <C : MutableCollection<in Boolean>>
BooleanArray.toCollection(destination: C): C {\n  for (item in this) {\n  destination.add(item)\n  }\n  return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n *\npublic fun <C :
MutableCollection<in Char>> CharArray.toCollection(destination: C): C {\n  for (item in this) {\n
destination.add(item)\n  }\n  return destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*\npublic fun <T> Array<out T>.toHashSet(): HashSet<T> {\n  return
toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n *\npublic
fun ByteArray.toHashSet(): HashSet<Byte> {\n  return
toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*\npublic fun ShortArray.toHashSet(): HashSet<Short> {\n  return
toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*\npublic fun IntArray.toHashSet(): HashSet<Int> {\n  return
toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n *\npublic
fun LongArray.toHashSet(): HashSet<Long> {\n  return
toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n

```

```

*\npublic fun FloatArray.toHashSet(): HashSet<Float> {\n    return
toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*\npublic fun DoubleArray.toHashSet(): HashSet<Double> {\n    return
toCollection(HashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*\npublic fun BooleanArray.toHashSet(): HashSet<Boolean> {\n    return
toCollection(HashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*\npublic fun CharArray.toHashSet(): HashSet<Char> {\n    return
toCollection(HashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a [List] containing all
elements.\n
*\npublic fun <T> Array<out T>.toList(): List<T> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all
elements.\n
*\npublic fun ByteArray.toList(): List<Byte> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*\npublic fun ShortArray.toList(): List<Short> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*\npublic fun IntArray.toList(): List<Int> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*\npublic fun LongArray.toList(): List<Long> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*\npublic fun FloatArray.toList(): List<Float> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*\npublic fun DoubleArray.toList(): List<Double> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*\npublic fun BooleanArray.toList(): List<Boolean> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*\npublic fun CharArray.toList(): List<Char> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a new [MutableList] filled with all
elements of this array.\n
*\npublic fun <T> Array<out T>.toMutableList(): MutableList<T> {\n    return
ArrayList(this.asCollection())\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n
*\npublic fun ByteArray.toMutableList(): MutableList<Byte> {\n    val list = ArrayList<Byte>(size)\n    for (item
in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this
array.\n
*\npublic fun ShortArray.toMutableList(): MutableList<Short> {\n    val list = ArrayList<Short>(size)\n    for (item
in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of
this array.\n
*\npublic fun IntArray.toMutableList(): MutableList<Int> {\n    val list = ArrayList<Int>(size)\n    for (item
in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of
this array.\n
*\npublic fun LongArray.toMutableList(): MutableList<Long> {\n    val list = ArrayList<Long>(size)\n    for (item
in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of
this array.\n
*\npublic fun FloatArray.toMutableList(): MutableList<Float> {\n    val list =
ArrayList<Float>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList]
filled with all elements of this array.\n
*\npublic fun DoubleArray.toMutableList(): MutableList<Double> {\n    val
list = ArrayList<Double>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new
[MutableList] filled with all elements of this array.\n
*\npublic fun BooleanArray.toMutableList():
MutableList<Boolean> {\n    val list = ArrayList<Boolean>(size)\n    for (item in this) list.add(item)\n    return
list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n
*\npublic fun
CharArray.toMutableList(): MutableList<Char> {\n    val list = ArrayList<Char>(size)\n    for (item in this)
list.add(item)\n    return list\n}\n\n/**\n * Returns a [Set] of all elements.\n
*\n * The returned set preserves the
element iteration order of the original array.\n
*\npublic fun <T> Array<out T>.toSet(): Set<T> {\n    return when
(size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<T>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n
*\n * \n *

```


The returned set preserves the element iteration order of the original array.

```

public fun ByteArray.toSet():
Set<Byte> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
        toCollection(LinkedHashSet<Byte>(mapCapacity(size)))
    }
}

```

* Returns a [Set] of all elements.

The returned set preserves the element iteration order of the original array.

```

public fun ShortArray.toSet():
Set<Short> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
        toCollection(LinkedHashSet<Short>(mapCapacity(size)))
    }
}

```

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

```

public fun IntArray.toSet():
Set<Int> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
        toCollection(LinkedHashSet<Int>(mapCapacity(size)))
    }
}

```

* Returns a [Set] of all elements.

The returned set preserves the element iteration order of the original array.

```

public fun LongArray.toSet():
Set<Long> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
        toCollection(LinkedHashSet<Long>(mapCapacity(size)))
    }
}

```

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

```

public fun FloatArray.toSet():
Set<Float> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
        toCollection(LinkedHashSet<Float>(mapCapacity(size)))
    }
}

```

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

```

public fun DoubleArray.toSet():
Set<Double> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
        toCollection(LinkedHashSet<Double>(mapCapacity(size)))
    }
}

```

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

```

public fun
BooleanArray.toSet(): Set<Boolean> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))
    }
}

```

* Returns a [Set] of all elements.

* The returned set preserves the element iteration order of the original array.

```

public fun
CharArray.toSet(): Set<Char> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -
        > toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))
    }
}

```

* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

* @sample samples.collections.Collections.Transformations.flatMap

```

public inline fun <T, R> Array<out
T>.flatMap(transform: (T) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

```

* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

* @sample samples.collections.Collections.Transformations.flatMap

```

public inline fun
<R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(),
transform)
}

```

* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

* @sample samples.collections.Collections.Transformations.flatMap

```

public inline fun <R> ShortArray.flatMap(transform:
(Short) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

```

* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

* @sample samples.collections.Collections.Transformations.flatMap

```

public inline fun <R>
IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(),
transform)
}

```

* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

* @sample samples.collections.Collections.Transformations.flatMap

```

public inline fun <R> LongArray.flatMap(transform:
(Long) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

```

* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

* @sample samples.collections.Collections.Transformations.flatMap

```

public inline fun <R>
FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(),
transform)
}

```

* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

* @sample samples.collections.Collections.Transformations.flatMap

```

public inline fun <R>
DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(),

```

```

transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R>
BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R> CharArray.flatMap(transform:
(Char) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <T, R> Array<out
T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ByteArray.flatMapIndexed(transform: (index: Int, Byte) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ShortArray.flatMapIndexed(transform: (index: Int, Short) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.flatMapIndexed(transform: (index: Int, Int) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.flatMapIndexed(transform: (index: Int, Long) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic

```

```

inline fun <R> FloatArray.flatMapIndexed(transform: (index: Int, Float) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}
/**
 * Returns a single list of all elements yielded from
 * results of [transform] function being invoked on each element
 * and its index in the original array.
 */
@sample samples.collections.Collections.Transformations.flatMapIndexed
*
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterable")
@kotlin.internal.InlineOnly
public
inline fun <R> DoubleArray.flatMapIndexed(transform: (index: Int, Double) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}
/**
 * Returns a single list of all elements yielded from
 * results of [transform] function being invoked on each element
 * and its index in the original array.
 */
@sample samples.collections.Collections.Transformations.flatMapIndexed
*
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterable")
@kotlin.internal.InlineOnly
public
inline fun <R> BooleanArray.flatMapIndexed(transform: (index: Int, Boolean) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}
/**
 * Returns a single list of all elements yielded
 * from results of [transform] function being invoked on each element
 * and its index in the original array.
 */
@sample samples.collections.Collections.Transformations.flatMapIndexed
*
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterable")
@kotlin.internal.InlineOnly
public
inline fun <R> CharArray.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}
/**
 * Returns a single list of all elements yielded from
 * results of [transform] function being invoked on each element
 * and its index in the original array.
 */
@sample samples.collections.Collections.Transformations.flatMapIndexed
*
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedSequence")
@kotlin.internal.InlineOnly
public
inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}
/**
 * Appends all elements yielded from results of
 * [transform] function being invoked on each element
 * and its index in the original array, to the given
 * [destination].
 */
*
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
@kotlin.internal.InlineOnly
public
inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++,
        element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements yielded from
 * results of [transform] function being invoked on each element
 * and its index in the original array, to the given
 * [destination].
 */
*
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
@kotlin.internal.InlineOnly
public
inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Byte) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++,
        element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements yielded from
 * results of [transform] function being invoked on each element
 * and its index in the original array, to the given
 * [destination].
 */
*
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
@kotlin.internal.InlineOnly
public
inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Short) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++,
        element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements yielded from
 * results of [transform] function being invoked on each element
 * and its index in the original array, to the given
 */

```

```

[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> IntArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Int) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++, element)\n
        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> LongArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Long) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Float) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapIndexedTo(destination: C, transform: (index:
Int, Double) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapIndexedTo(destination: C, transform: (index:
Int, Boolean) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> CharArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Char) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npu
blic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =
transform(index++, element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all

```

```

elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n * public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C,
transform: (T) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n }\n return destination}\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n * public inline
fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C
{\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination}\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n * public inline fun <R, C : MutableCollection<in R>>
ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {\n for (element in this) {\n val
list = transform(element)\n destination.addAll(list)\n }\n return destination}\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n * public inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C,
transform: (Int) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n }\n return destination}\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n * public inline
fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>): C
{\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination}\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n * public inline fun <R, C : MutableCollection<in R>>
FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {\n for (element in this) {\n val
list = transform(element)\n destination.addAll(list)\n }\n return destination}\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n * public inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C,
transform: (Double) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n }\n return destination}\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n * public inline
fun <R, C : MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) ->
Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n
}\n return destination}\n * Appends all elements yielded from results of [transform] function being
invoked on each element of original array, to the given [destination].\n * public inline fun <R, C :
MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination}\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic inline fun <T, R, C :
MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination}\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n * public inline fun
<T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return
groupBy(LinkedHashMap<K, MutableList<T>>(), keySelector)\n }\n * Groups elements of the original
array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where
each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry
iteration order of the keys produced from the original array.\n * \n * @sample

```

```

samples.collections.Collections.Transformations.groupBy\n *\npublic inline fun <K>
ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {\n  return groupByTo(LinkedHashMap<K,
MutableList<Byte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the
given [keySelector] function\n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *\npublic
inline fun <K> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n *\npublic inline fun <K>
IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {\n  return groupByTo(LinkedHashMap<K,
MutableList<Int>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the
given [keySelector] function\n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *\npublic
inline fun <K> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n *\npublic inline fun <K>
FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {\n  return groupByTo(LinkedHashMap<K,
MutableList<Float>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the
given [keySelector] function\n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *\npublic
inline fun <K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n *\npublic inline fun <K>
BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n *\npublic inline fun <K>
CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n  return groupByTo(LinkedHashMap<K,
MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied
to each element of the original array\n * by the key returned by the given [keySelector] function applied to the
element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The
returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n *\npublic inline fun <T, K, V>
Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values

```

returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample

```
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
```

```
ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {\n    return\n    groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
```

```
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
```

```
ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n    return\n    groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
```

```
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
```

```
IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n    return\n    groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
```

```
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
```

```
LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n    return\n    groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
```

```
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
```

```
FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n    return\n    groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
```

```
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
```

```
DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>> {\n    return\n    groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
```

```
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
```

```
BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>> {\n
```

```

return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is
associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the
keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n *\npublic inline fun <K, V>
CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n    return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements
of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to
the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *\npublic inline
fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -
> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key)
{ ArrayList<T>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *\npublic inline
fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -
> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key)
{ ArrayList<Byte>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *\npublic inline
fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short)
-> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<Short>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n *
Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\npublic inline fun <K, M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M,
keySelector: (Int) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<Int>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n *
Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\npublic inline fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M,
keySelector: (Long) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<Long>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n *
Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\npublic inline fun <K, M : MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M,
keySelector: (Float) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<Float>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n *
Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\npublic inline fun <K, M : MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M,

```



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keySelector: (Double) -> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<Double>() }\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\n\npublic inline fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination:
M, keySelector: (Boolean) -> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<Boolean>() }\n    list.add(element)\n  }\n  return
destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and puts to the [destination] map each group key associated with a list of
corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*/\n\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K): M {\n  for (element in
this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<Char>() }\n
list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function
applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to
the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n *
\n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M, keySelector:
(Byte) -> K, valueTransform: (Byte) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector:
(Short) -> K, valueTransform: (Short) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector:
(Int) -> K, valueTransform: (Int) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector:

```

```

(Long) -> K, valueTransform: (Long) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array
 * by the key returned by the given [keySelector] function applied to the element
 * and puts to the
 * [destination] map each group key associated with a list of corresponding values.
 *
 * @return The [destination] map.
 *
 * @sample samples.collections.Collections.Transformations.groupByKeyAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector:
(Float) -> K, valueTransform: (Float) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array
 * by the key returned by the given [keySelector] function applied to the element
 * and puts to the
 * [destination] map each group key associated with a list of corresponding values.
 *
 * @return The [destination] map.
 *
 * @sample samples.collections.Collections.Transformations.groupByKeyAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector:
(Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        val key =
        keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the
 * [valueTransform] function applied to each element of the original array
 * by the key returned by the given
 * [keySelector] function applied to the element
 * and puts to the [destination] map each group key associated with a
 * list of corresponding values.
 *
 * @return The [destination] map.
 *
 * @sample
 * samples.collections.Collections.Transformations.groupByKeyAndValues
 */
public inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K,
valueTransform: (Boolean) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list =
        destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return
    destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array
 * by the key returned by the given [keySelector] function applied to the element
 * and puts to the
 * [destination] map each group key associated with a list of corresponding values.
 *
 * @return The [destination] map.
 *
 * @sample
 * samples.collections.Collections.Transformations.groupByKeyAndValues
 */
public inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M, keySelector:
(Char) -> K, valueTransform: (Char) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Creates a [Grouping] source from an array to be used later with one of group-and-fold
 * operations
 * using the specified [keySelector] function to extract a key from each element.
 *
 * @sample
 * samples.collections.Grouping.groupingByEachCount
 */
@SinceKotlin("1.1")
public inline fun <T, K>
Array<out T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {
    return object : Grouping<T,
    K> {
        override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()
        override fun
        keyOf(element: T): K = keySelector(element)
    }
}

/**
 * Returns a list containing the results of applying
 * the given [transform] function
 * to each element in the original array.
 *
 * @sample
 * samples.collections.Collections.Transformations.map
 */
public inline fun <T, R> Array<out T>.map(transform:
(T) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the
 * results of applying the given [transform] function
 * to each element in the original array.
 *
 * @sample
 * samples.collections.Collections.Transformations.map
 */
public inline fun <R> ByteArray.map(transform: (Byte)
-> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the
 * results of applying the given [transform] function
 * to each element in the original array.
 *
 * @sample
 * samples.collections.Collections.Transformations.map
 */
public inline fun <R> ShortArray.map(transform:
(Short) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing
 * the results of applying the given [transform] function
 * to each element in the original array.
 *
 * @sample
 * samples.collections.Collections.Transformations.map
 */
public inline fun <R> IntArray.map(transform: (Int) ->

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R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> LongArray.map(transform: (Long) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> FloatArray.map(transform: (Float) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> DoubleArray.map(transform: (Double) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> CharArray.map(transform: (Char) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R> Array<out T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> ByteArray.mapIndexed(transform: (index: Int, Byte) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> BooleanArray.mapIndexed(transform:

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(index: Int, Boolean) -> R): List<R> {\n  return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element and its index in
the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R>
CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n  return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of
applying the given [transform] function\n * to each element and its index in the original array.\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the result of the
transform applied to the element.\n */\npublic inline fun <T, R : Any> Array<out
T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n  return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original array\n * and appends only the non-null results to the given [destination].\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out
T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n  forEachIndexed { index,
element -> transform(index, element)?.let { destination.add(it) } }\n  return destination\n}\n\n/**\n * Applies the
given [transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C : MutableCollection<in
R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n  var index = 0\n  for
(item in this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {\n  var index = 0\n  for (item in
this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {\n  var index = 0\n  for (item in
this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {\n  var index = 0\n  for (item in
this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {\n  var index = 0\n  for (item in
this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {\n  var index = 0\n  for (item in
this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */

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returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {\n  var index = 0\n  for
(item in this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C {\n  var index = 0\n  for
(item in this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n  var index = 0\n  for (item in
this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Returns a list containing
only the non-null results of applying the given [transform] function\n * to each element in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.mapNotNull\n */\npublic inline fun <T, R : Any>
Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {\n  return mapNotNullTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original array\n * and
appends only the non-null results to the given [destination].\n */\npublic inline fun <T, R : Any, C :
MutableCollection<in R>> Array<out T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n  forEach {
element -> transform(element)?.let { destination.add(it) } }\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*/\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapTo(destination: C, transform: (T) ->
R): C {\n  for (item in this)\n    destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the
given [transform] function to each element of the original array\n * and appends the results to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.mapTo(destination: C,
transform: (Byte) -> R): C {\n  for (item in this)\n    destination.add(transform(item))\n  return
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and
appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
ShortArray.mapTo(destination: C, transform: (Short) -> R): C {\n  for (item in this)\n
destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> IntArray.mapTo(destination: C, transform: (Int) -> R): C {\n  for (item in this)\n
destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> LongArray.mapTo(destination: C, transform: (Long) -> R): C {\n  for (item in this)\n
destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R,
C : MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C {\n  for (item in
this)\n    destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given [transform]
function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic
inline fun <R, C : MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {\n
for (item in this)\n    destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*/\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean)
-> R): C {\n  for (item in this)\n    destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies
the given [transform] function to each element of the original array\n * and appends the results to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapTo(destination: C,
transform: (Char) -> R): C {\n  for (item in this)\n    destination.add(transform(item))\n  return

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destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun <T> Array<out T>.withIndex(): Iterable<IndexedValue<T>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun ByteArray.withIndex(): Iterable<IndexedValue<Byte>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun ShortArray.withIndex(): Iterable<IndexedValue<Short>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun IntArray.withIndex(): Iterable<IndexedValue<Int>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun FloatArray.withIndex(): Iterable<IndexedValue<Float>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * Among equal elements of the given array, only the first one will be present in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T> Array<out T>.distinct(): List<T> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun ByteArray.distinct(): List<Byte> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun ShortArray.distinct(): List<Short> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun IntArray.distinct(): List<Int> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun LongArray.distinct(): List<Long> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun FloatArray.distinct(): List<Float> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun

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DoubleArray.distinct(): List<Double> {\n  return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list
containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same
order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun BooleanArray.distinct():
List<Boolean> {\n  return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct
elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the
source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic
fun CharArray.distinct(): List<Char> {\n  return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing
only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n *
Among elements of the given array with equal keys, only the first one will be present in the resulting list.\n * The
elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <T, K> Array<out
T>.distinctBy(selector: (T) -> K): List<T> {\n  val set = HashSet<K>()\n  val list = ArrayList<T>()\n  for (e in
this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n  return list\n}\n\n/**\n *
Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector]
function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n *
@sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {\n  val set = HashSet<K>()\n  val list =
ArrayList<Byte>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n
return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
ShortArray.distinctBy(selector: (Short) -> K): List<Short> {\n  val set = HashSet<K>()\n  val list =
ArrayList<Short>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n
return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
IntArray.distinctBy(selector: (Int) -> K): List<Int> {\n  val set = HashSet<K>()\n  val list = ArrayList<Int>()\n
for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n  return list\n}\n\n/**\n *
Returns a list containing only elements from the given array\n * having distinct keys returned by the given
[selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source
array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline
fun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> {\n  val set = HashSet<K>()\n  val list =
ArrayList<Long>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n
return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
FloatArray.distinctBy(selector: (Float) -> K): List<Float> {\n  val set = HashSet<K>()\n  val list =
ArrayList<Float>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n
return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\n  val set = HashSet<K>()\n  val list =
ArrayList<Double>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n
}

```

```

}\n  return list}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {\n  val set = HashSet<K>()\n  val list =
ArrayList<Boolean>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n  return list}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
CharArray.distinctBy(selector: (Char) -> K): List<Char> {\n  val set = HashSet<K>()\n  val list =
ArrayList<Char>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n  return list}\n\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun <T>
Array<out T>.intersect(other: Iterable<T>): Set<T> {\n  val set = this.toMutableSet()\n  set.retainAll(other)\n  return set}\n\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun
ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {\n  val set = this.toMutableSet()\n  set.retainAll(other)\n  return set}\n\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun
ShortArray.intersect(other: Iterable<Short>): Set<Short> {\n  val set = this.toMutableSet()\n  set.retainAll(other)\n  return set}\n\n\n/**\n * Returns a set containing all elements that are contained by both this
array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original
array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use
[union].\n */\npublic infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> {\n  val set = this.toMutableSet()\n  set.retainAll(other)\n  return set}\n\n\n/**\n * Returns a set containing all elements that are contained by both this
array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original
array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use
[union].\n */\npublic infix fun LongArray.intersect(other: Iterable<Long>): Set<Long> {\n  val set =
this.toMutableSet()\n  set.retainAll(other)\n  return set}\n\n\n/**\n * Returns a set containing all elements that are
contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration
order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these
collections use [union].\n */\npublic infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float> {\n  val set
= this.toMutableSet()\n  set.retainAll(other)\n  return set}\n\n\n/**\n * Returns a set containing all elements that
are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration
order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these
collections use [union].\n */\npublic infix fun DoubleArray.intersect(other: Iterable<Double>): Set<Double> {\n  val set = this.toMutableSet()\n  set.retainAll(other)\n  return set}\n\n\n/**\n * Returns a set containing all
elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the
element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least
in one of these collections use [union].\n */\npublic infix fun BooleanArray.intersect(other: Iterable<Boolean>):
Set<Boolean> {\n  val set = this.toMutableSet()\n  set.retainAll(other)\n  return set}\n\n\n/**\n * Returns a set
containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set
preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are
contained at least in one of these collections use [union].\n */\npublic infix fun CharArray.intersect(other:

```


Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic infix fun <T> Array<out T>.subtract(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic infix fun ByteArray.subtract(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic infix fun ShortArray.subtract(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic infix fun IntArray.subtract(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic infix fun LongArray.subtract(other: Iterable<Long>): Set<Long> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic infix fun FloatArray.subtract(other: Iterable<Float>): Set<Float> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic infix fun DoubleArray.subtract(other: Iterable<Double>): Set<Double> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic infix fun BooleanArray.subtract(other: Iterable<Boolean>): Set<Boolean> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic infix fun CharArray.subtract(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic fun <T> Array<out T>.toMutableSet(): MutableSet<T> {\n return toCollection(LinkedHashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic fun ByteArray.toMutableSet(): MutableSet<Byte> {\n return toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic fun ShortArray.toMutableSet(): MutableSet<Short> {\n return toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic fun IntArray.toMutableSet(): MutableSet<Int> {\n return toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic fun LongArray.toMutableSet(): MutableSet<Long> {\n return toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\n\npublic fun FloatArray.toMutableSet(): MutableSet<Float> {\n return toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all

distinct elements from the given array.

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    * The returned set preserves the element iteration order of the original
    * array.
    * ^\npublic fun DoubleArray.toMutableSet(): MutableSet<Double> {
    *   return
    *   toCollection(LinkedHashSet<Double>(mapCapacity(size)))
    * }
    * Returns a new [MutableSet] containing
    * all distinct elements from the given array.
    * The returned set preserves the element iteration order of the
    * original array.
    * ^\npublic fun BooleanArray.toMutableSet(): MutableSet<Boolean> {
    *   return
    *   toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))
    * }
    * Returns a new [MutableSet] containing
    * all distinct elements from the given array.
    * The returned set preserves the element iteration order of the
    * original array.
    * ^\npublic fun CharArray.toMutableSet(): MutableSet<Char> {
    *   return
    *   toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))
    * }
    * Returns a set containing
    * all distinct elements from both collections.
    * The returned set preserves the element iteration order of the
    * original array.
    * Those elements of the [other] collection that are unique are iterated
    * in the end
    * in the order of the [other] collection.
    * To get a set containing all elements that are contained in both
    * collections use [intersect].
    * ^\npublic infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {
    *   val set =
    *   this.toMutableSet()
    *   set.addAll(other)
    *   return set
    * }
    * Returns a set containing all distinct elements
    * from both collections.
    * The returned set preserves the element iteration order of the original
    * array.
    * Those elements of the [other] collection that are unique are iterated
    * in the end
    * in the order of the [other] collection.
    * To get a set containing all elements that are contained in both
    * collections use [intersect].
    * ^\npublic infix fun
    * ByteArray.union(other: Iterable<Byte>): Set<Byte> {
    *   val set = this.toMutableSet()
    *   set.addAll(other)
    *   return set
    * }
    * Returns a set containing all distinct elements from both collections.
    * The returned set
    * preserves the element iteration order of the original array.
    * Those elements of the [other] collection that are
    * unique are iterated in the end
    * in the order of the [other] collection.
    * To get a set containing all elements
    * that are contained in both collections use [intersect].
    * ^\npublic infix fun
    * ShortArray.union(other:
    * Iterable<Short>): Set<Short> {
    *   val set = this.toMutableSet()
    *   set.addAll(other)
    *   return set
    * }
    * Returns a set containing all distinct elements from both collections.
    * The returned set preserves the element
    * iteration order of the original array.
    * Those elements of the [other] collection that are unique are iterated
    * in the
    * end
    * in the order of the [other] collection.
    * To get a set containing all elements that are contained in both
    * collections use [intersect].
    * ^\npublic infix fun
    * IntArray.union(other: Iterable<Int>): Set<Int> {
    *   val set =
    *   this.toMutableSet()
    *   set.addAll(other)
    *   return set
    * }
    * Returns a set containing all distinct elements
    * from both collections.
    * The returned set preserves the element iteration order of the original
    * array.
    * Those elements of the [other] collection that are unique are iterated
    * in the end
    * in the order of the [other] collection.
    * To get a set containing all elements that are contained in both
    * collections use [intersect].
    * ^\npublic infix fun
    * LongArray.union(other: Iterable<Long>): Set<Long> {
    *   val set = this.toMutableSet()
    *   set.addAll(other)
    *   return set
    * }
    * Returns a set containing all distinct elements from both collections.
    * The returned set
    * preserves the element iteration order of the original array.
    * Those elements of the [other] collection that are
    * unique are iterated in the end
    * in the order of the [other] collection.
    * To get a set containing all elements
    * that are contained in both collections use [intersect].
    * ^\npublic infix fun
    * FloatArray.union(other: Iterable<Float>):
    * Set<Float> {
    *   val set = this.toMutableSet()
    *   set.addAll(other)
    *   return set
    * }
    * Returns a set
    * containing all distinct elements from both collections.
    * The returned set preserves the element iteration order
    * of the original array.
    * Those elements of the [other] collection that are unique are iterated
    * in the end
    * in the order of the [other] collection.
    * To get a set containing all elements that are contained in both
    * collections use [intersect].
    * ^\npublic infix fun
    * DoubleArray.union(other: Iterable<Double>): Set<Double> {
    *   val set =
    *   this.toMutableSet()
    *   set.addAll(other)
    *   return set
    * }
    * Returns a set containing all distinct elements
    * from both collections.
    * The returned set preserves the element iteration order of the original
    * array.
    * Those elements of the [other] collection that are unique are iterated
    * in the end
    * in the order of the [other] collection.
    * To get a set containing all elements that are contained in both
    * collections use [intersect].
    * ^\npublic infix fun
    * BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {
    *   val set = this.toMutableSet()
    *   set.addAll(other)
    *   return set
    * }
    * Returns a set containing all distinct elements from both collections.
    * The returned set preserves the element iteration order of the original
    * array.
    * Those elements of the [other]
  
```

collection that are unique are iterated in the end
in the order of the [other] collection.
To get a set containing all elements that are contained in both collections use [intersect].
public infix fun CharArray.union(other: Iterable<Char>): Set<Char> {
val set = this.toMutableSet()
set.addAll(other)
return set
}
Returns `true` if all elements match the given [predicate].
@sample
samples.collections.Collections.Aggregates.all
public inline fun <T> Array<out T>.all(predicate: (T) -> Boolean): Boolean {
for (element in this) if (!predicate(element)) return false
return true
}
Returns `true` if all elements match the given [predicate].
@sample
samples.collections.Collections.Aggregates.all
public inline fun ByteArray.all(predicate: (Byte) -> Boolean): Boolean {
for (element in this) if (!predicate(element)) return false
return true
}
Returns `true` if all elements match the given [predicate].
@sample
samples.collections.Collections.Aggregates.all
public inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean {
for (element in this) if (!predicate(element)) return false
return true
}
Returns `true` if all elements match the given [predicate].
@sample
samples.collections.Collections.Aggregates.all
public inline fun IntArray.all(predicate: (Int) -> Boolean): Boolean {
for (element in this) if (!predicate(element)) return false
return true
}
Returns `true` if all elements match the given [predicate].
@sample
samples.collections.Collections.Aggregates.all
public inline fun LongArray.all(predicate: (Long) -> Boolean): Boolean {
for (element in this) if (!predicate(element)) return false
return true
}
Returns `true` if all elements match the given [predicate].
@sample
samples.collections.Collections.Aggregates.all
public inline fun FloatArray.all(predicate: (Float) -> Boolean): Boolean {
for (element in this) if (!predicate(element)) return false
return true
}
Returns `true` if all elements match the given [predicate].
@sample
samples.collections.Collections.Aggregates.all
public inline fun DoubleArray.all(predicate: (Double) -> Boolean): Boolean {
for (element in this) if (!predicate(element)) return false
return true
}
Returns `true` if all elements match the given [predicate].
@sample
samples.collections.Collections.Aggregates.all
public inline fun BooleanArray.all(predicate: (Boolean) -> Boolean): Boolean {
for (element in this) if (!predicate(element)) return false
return true
}
Returns `true` if all elements match the given [predicate].
@sample
samples.collections.Collections.Aggregates.all
public inline fun CharArray.all(predicate: (Char) -> Boolean): Boolean {
for (element in this) if (!predicate(element)) return false
return true
}
Returns `true` if array has at least one element.
@sample
samples.collections.Collections.Aggregates.any
public fun <T> Array<out T>.any(): Boolean {
return !isEmpty()
}
Returns `true` if array has at least one element.
@sample
samples.collections.Collections.Aggregates.any
public fun ByteArray.any(): Boolean {
return !isEmpty()
}
Returns `true` if array has at least one element.
@sample
samples.collections.Collections.Aggregates.any
public fun ShortArray.any(): Boolean {
return !isEmpty()
}
Returns `true` if array has at least one element.
@sample
samples.collections.Collections.Aggregates.any
public fun IntArray.any(): Boolean {
return !isEmpty()
}
Returns `true` if array has at least one element.
@sample
samples.collections.Collections.Aggregates.any
public fun LongArray.any(): Boolean {
return !isEmpty()
}
Returns `true` if array has at least one element.
@sample
samples.collections.Collections.Aggregates.any
public fun FloatArray.any(): Boolean {
return !isEmpty()
}
Returns `true` if array has at least one element.
@sample
samples.collections.Collections.Aggregates.any
public fun DoubleArray.any(): Boolean {
return !isEmpty()
}
Returns `true` if array has at least one element.
@sample
samples.collections.Collections.Aggregates.any
public fun BooleanArray.any(): Boolean {
return !isEmpty()
}
Returns `true` if array has at least one element.
@sample
samples.collections.Collections.Aggregates.any
public fun CharArray.any(): Boolean {
return !isEmpty()
}
Returns `true` if at least one element matches the given [predicate].
@sample
samples.collections.Collections.Aggregates.anyWithPredicate
public inline fun <T> Array<out T>.any(predicate: (T) -> Boolean): Boolean {
for (element in this) if (predicate(element)) return true
return

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false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun ByteArray.any(predicate:
(Byte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun ShortArray.any(predicate:
(Short) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun IntArray.any(predicate: (Int) -
> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n *
Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun LongArray.any(predicate:
(Long) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun FloatArray.any(predicate:
(Float) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun DoubleArray.any(predicate:
(Double) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun BooleanArray.any(predicate:
(Boolean) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharArray.any(predicate:
(Char) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns the number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Array<out T>.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the
number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.count(): Int {\n
return size\n}\n\n/**\n * Returns the number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the
number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.count(): Int {\n
return size\n}\n\n/**\n * Returns the number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.count(): Int {\n    return size\n}\n\n/**\n * Returns
the number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.count(): Int {\n
return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n * \n */\npublic inline fun
<T> Array<out T>.count(predicate: (T) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n * \n */\npublic inline fun ByteArray.count(predicate: (Byte) -> Boolean): Int {\n    var count = 0\n
for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements
matching the given [predicate].\n * \n */\npublic inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {\n
var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the
number of elements matching the given [predicate].\n * \n */\npublic inline fun IntArray.count(predicate: (Int) ->
Boolean): Int {\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n * \n */\npublic inline fun
LongArray.count(predicate: (Long) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the given

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[predicate].\n */\npublic inline fun FloatArray.count(predicate: (Float) -> Boolean): Int {\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int {\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun CharArray.count(predicate: (Char) -> Boolean): Int {\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.fold(initial: R, operation: (acc: R, Float) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {\n  var accumulator = initial\n  for

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(element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and
each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes current accumulator value and an element, and calculates the next accumulator value.\n
*\npublic inline fun <R> CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {\n  var accumulator =
initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator
value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array
is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and
the element itself, and calculates the next accumulator value.\n *\npublic inline fun <T, R> Array<out
T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n  var index = 0\n  var accumulator =
initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\npublic inline fun <R> ByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): R {\n  var
index = 0\n  var accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator,
element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n
*\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n *\npublic inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R
{\n  var index = 0\n  var accumulator = initial\n  for (element in this) accumulator = operation(index++,
accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each element with its index in the
original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n *\npublic inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int, acc: R,
Int) -> R): R {\n  var index = 0\n  var accumulator = initial\n  for (element in this) accumulator =
operation(index++, accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its
index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, current accumulator value\n * and the element itself, and
calculates the next accumulator value.\n *\npublic inline fun <R> LongArray.foldIndexed(initial: R, operation:
(index: Int, acc: R, Long) -> R): R {\n  var index = 0\n  var accumulator = initial\n  for (element in this)
accumulator = operation(index++, accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n
*\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element
itself, and calculates the next accumulator value.\n *\npublic inline fun <R> FloatArray.foldIndexed(initial: R,
operation: (index: Int, acc: R, Float) -> R): R {\n  var index = 0\n  var accumulator = initial\n  for (element in
this) accumulator = operation(index++, accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and
each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the
element itself, and calculates the next accumulator value.\n *\npublic inline fun <R>
DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {\n  var index = 0\n  var

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accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*/\npublic inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {\n
  var index = 0\n  var accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator,
element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n
 * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n */\npublic inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R
{\n  var index = 0\n  var accumulator = initial\n  for (element in this) accumulator = operation(index++,
accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out
T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator = initial\n
while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n */\npublic inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R):
R {\n  var index = lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator =
operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element
and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>
ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator =
initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n */\npublic inline fun <R> IntArray.foldRight(initial: R, operation: (Int, acc: R) -> R): R
{\n  var index = lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator =
operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element
and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>
LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator =
initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n */\npublic inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R):
R {\n  var index = lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator =
operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element
and current accumulator value, and calculates the next accumulator value.\n */\n

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Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>

DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>

CharArray.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldRightIndexed(initial: R, operation: (index: Int, Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>

LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator}\n\n/**\n * Accumulates value starting with [initial] value and applying


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[operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n
 * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator
value.\n */\npublic inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (index: Int, Float, acc: R) ->
R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator =
operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the
original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n *
 * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator
value, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.foldRightIndexed(initial:
R, operation: (index: Int, Double, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while
(index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
 */\npublic inline fun <R> BooleanArray.foldRightIndexed(initial: R, operation: (index: Int, Boolean, acc: R) -> R):
R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator =
operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the
original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n *
 * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator
value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldRightIndexed(initial: R,
operation: (index: Int, Char, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while
(index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return
accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun <T> Array<out
T>.forEach(action: (T) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n * Performs the given
[action] on each element.\n */\npublic inline fun ByteArray.forEach(action: (Byte) -> Unit): Unit {\n    for (element
in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun
ShortArray.forEach(action: (Short) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n * Performs
the given [action] on each element.\n */\npublic inline fun IntArray.forEach(action: (Int) -> Unit): Unit {\n    for
(element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun
LongArray.forEach(action: (Long) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n * Performs
the given [action] on each element.\n */\npublic inline fun FloatArray.forEach(action: (Float) -> Unit): Unit {\n
    for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline
fun DoubleArray.forEach(action: (Double) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n */\npublic inline fun BooleanArray.forEach(action: (Boolean) ->
Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n
 */\npublic inline fun CharArray.forEach(action: (Char) -> Unit): Unit {\n    for (element in this)
action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the
element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the
action on the element.\n */\npublic inline fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit):
Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on
each element, providing sequential index with the element.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n */\npublic inline fun
ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs

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the action on the element.\n */\npublic inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit):
Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on
each element, providing sequential index with the element.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n */\npublic inline fun
IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\npublic inline fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit):
Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on
each element, providing sequential index with the element.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n */\npublic inline fun
FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\npublic inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit):
Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on
each element, providing sequential index with the element.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n */\npublic inline fun
BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\npublic inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit
{\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Array<out Double>.max(): Double? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Array<out Float>.max(): Float? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun <T : Comparable<T>> Array<out T>.max(): T? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun ByteArray.max(): Byte? {\n    return maxOrNull()\n}\n\n@Deprecated("Use
maxOrNull instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun ShortArray.max(): Short? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun IntArray.max(): Int? {\n    return maxOrNull()\n}\n\n@Deprecated("Use
maxOrNull instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun LongArray.max(): Long? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun FloatArray.max(): Float? {\n    return maxOrNull()\n}\n\n@Deprecated("Use
maxOrNull instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun DoubleArray.max(): Double? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",

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hiddenSince = `1.6`)
public fun CharArray.max(): Char? {
    return maxOrNull()
}
@Deprecated("Use
maxByOrNull instead.", ReplaceWith("this.maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince =
`1.4`, errorSince = `1.5`, hiddenSince = `1.6`)
public inline fun <T, R : Comparable<R>> Array<out
T>.maxBy(selector: (T) -> R): T? {
    return maxByOrNull(selector)
}
@Deprecated("Use maxByOrNull
instead.", ReplaceWith("this.maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = `1.4`,
errorSince = `1.5`, hiddenSince = `1.6`)
public inline fun <R : Comparable<R>> ByteArray.maxBy(selector:
(Byte) -> R): Byte? {
    return maxByOrNull(selector)
}
@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)
public inline fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R):
Short? {
    return maxByOrNull(selector)
}
@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)
public inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int?
{
    return maxByOrNull(selector)
}
@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)
public inline fun <R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R):
Long? {
    return maxByOrNull(selector)
}
@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)
public inline fun <R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R):
Float? {
    return maxByOrNull(selector)
}
@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)
public inline fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) ->
R): Double? {
    return maxByOrNull(selector)
}
@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)
public inline fun <R : Comparable<R>> BooleanArray.maxBy(selector: (Boolean) -
> R): Boolean? {
    return maxByOrNull(selector)
}
@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)
public inline fun <R : Comparable<R>> CharArray.maxBy(selector: (Char) -> R):
Char? {
    return maxByOrNull(selector)
}
}

Returns the first element yielding the largest value of the
given function or `null` if there are no elements.
`@sample
samples.collections.Collections.Aggregates.maxByOrNull`
`@SinceKotlin("1.4")`
public inline fun <T, R :
Comparable<R>> Array<out T>.maxByOrNull(selector: (T) -> R): T? {
    if (isEmpty()) return null
    var
maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxV =
selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxV < v)
            maxElem = e
            maxV = v
    }
    return maxElem
}

Returns the first
element yielding the largest value of the given function or `null` if there are no elements.
`@sample
samples.collections.Collections.Aggregates.maxByOrNull`
`@SinceKotlin("1.4")`
public inline fun <R :
Comparable<R>> ByteArray.maxByOrNull(selector: (Byte) -> R): Byte? {
    if (isEmpty()) return null
    var
maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxV =
selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxV < v)
            maxElem = e
            maxV = v
    }
    return maxElem
}

Returns the first
element yielding the largest value of the given function or `null` if there are no elements.
`@sample
samples.collections.Collections.Aggregates.maxByOrNull`
`@SinceKotlin("1.4")`
public inline fun <R :
Comparable<R>> ShortArray.maxByOrNull(selector: (Short) -> R): Short? {
    if (isEmpty()) return null
    var
maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxV =
selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxV < v)
            maxElem = e
            maxV = v
    }
    return maxElem
}

Returns the first
element yielding the largest value of the given function or `null` if there are no elements.
`@sample
samples.collections.Collections.Aggregates.maxByOrNull`
`@SinceKotlin("1.4")`
public inline fun <R :

```

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Comparable<R>> IntArray.maxByOrNull(selector: (Int) -> R): Int? {\n  if (isEmpty()) return null\n  var maxElem
= this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var maxValue =
selector(maxElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (maxValue < v)
{\n      maxElem = e\n      maxValue = v\n    }\n  }\n  return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> LongArray.maxByOrNull(selector: (Long) -> R): Long? {\n  if (isEmpty()) return null\n  var
maxElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var maxValue =
selector(maxElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (maxValue < v)
{\n      maxElem = e\n      maxValue = v\n    }\n  }\n  return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> FloatArray.maxByOrNull(selector: (Float) -> R): Float? {\n  if (isEmpty()) return null\n  var
maxElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var maxValue =
selector(maxElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (maxValue < v)
{\n      maxElem = e\n      maxValue = v\n    }\n  }\n  return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> DoubleArray.maxByOrNull(selector: (Double) -> R): Double? {\n  if (isEmpty()) return null\n
var maxElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var maxValue =
selector(maxElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (maxValue < v)
{\n      maxElem = e\n      maxValue = v\n    }\n  }\n  return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> BooleanArray.maxByOrNull(selector: (Boolean) -> R): Boolean? {\n  if (isEmpty()) return
null\n  var maxElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var
maxValue = selector(maxElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if
(maxValue < v) {\n      maxElem = e\n      maxValue = v\n    }\n  }\n  return maxElem\n}\n\n/**\n *
Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun
<R : Comparable<R>> CharArray.maxByOrNull(selector: (Char) -> R): Char? {\n  if (isEmpty()) return null\n
var maxElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var maxValue =
selector(maxElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (maxValue < v)
{\n      maxElem = e\n      maxValue = v\n    }\n  }\n  return maxElem\n}\n\n/**\n * Returns the largest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return

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maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for

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(i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n } \n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i
in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) -> Float):
Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i
in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i
in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Float):
Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i
in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i
in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i
in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) ->

```

```

Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return
    maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun BooleanArray.maxOf(selector: (Boolean) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return
    maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharArray.maxOf(selector: (Char) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return
    maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> Array<out T>.maxOf(selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue =
    selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced
 * by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the
 * array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
ByteArray.maxOf(selector: (Byte) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var
    maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values
 * produced by [selector] function
 * applied to each element in the array.
 * @throws
 * NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
ShortArray.maxOf(selector: (Short) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var
    maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values
 * produced by [selector] function
 * applied to each element in the array.
 * @throws
 * NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
IntArray.maxOf(selector: (Int) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue =
    selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced
 * by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the
 * array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>

```

```

LongArray.maxOf(selector: (Long) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var\n  maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nFloatArray.maxOf(selector: (Float) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var\n  maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nDoubleArray.maxOf(selector: (Double) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var\n  maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nBooleanArray.maxOf(selector: (Boolean) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var\n  maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nCharArray.maxOf(selector: (Char) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var\n  maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If\n * any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(selector:\n(T) -> Double): Double? {\n  if (isEmpty()) return null\n  var maxValue = selector(this[0])\n  for (i in\n  1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return\n  maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to\n * each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function\n * is `NaN`, the returned result is `NaN`.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOfOrNull(selector: (Byte) ->\nDouble): Double? {\n  if (isEmpty()) return null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n * if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n * `NaN`.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```


ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOrNull(selector: (Short) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOrNull(selector: (Int) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOrNull(selector: (Long) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOrNull(selector: (Float) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOrNull(selector: (Double) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOrNull(selector: (Boolean) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOrNull(selector: (Char) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(selector:\n(T) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned\n result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOfOrNull(selector: (Byte) ->\nFloat): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOfOrNull(selector: (Short) -\n> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOfOrNull(selector: (Int) ->\nFloat): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOfOrNull(selector: (Long) -\n> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOfOrNull(selector: (Float) -\n> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOfOrNull(selector:\n(Double) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in\n1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\nmaxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function
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is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOrNull(selector:\n(Boolean) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\nmaxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function\n is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOrNull(selector: (Char) ->\nFloat): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns\n the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out\nT>.maxOrNull(selector: (T) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nByteArray.maxOrNull(selector: (Byte) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =\nselector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nShortArray.maxOrNull(selector: (Short) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =\nselector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nIntArray.maxOrNull(selector: (Int) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =\nselector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nLongArray.maxOrNull(selector: (Long) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =\nselector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nFloatArray.maxOrNull(selector: (Float) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =\nselector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n
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maxValue = v\n    }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.maxOrNull(selector: (Double) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n
maxValue = v\n    }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.maxOrNull(selector: (Boolean) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n
maxValue = v\n    }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.maxOrNull(selector: (Char) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n
maxValue = v\n    }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.maxOfWith(comparator:
Comparator<in R>, selector: (Byte) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.maxOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.maxOfWith(comparator:
Comparator<in R>, selector: (Int) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue
= selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n *

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Returns the largest value according to the provided [comparator] * among all values produced by [selector] function applied to each element in the array. * @throws NoSuchElementException if the array is empty. *

```

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
ByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <R> LongArray.maxOfWith(comparator:
Comparator<in R>, selector: (Long) -> R): R { \n if (isEmpty()) throw NoSuchElementException() \n var
maxValue = selector(this[0]) \n for (i in 1..lastIndex) { \n val v = selector(this[i]) \n if
(comparator.compare(maxValue, v) < 0) { \n maxValue = v \n } \n } \n return maxValue \n } \n } \n ** \n *

```

Returns the largest value according to the provided [comparator] * among all values produced by [selector] function applied to each element in the array. * @throws NoSuchElementException if the array is empty. *

```

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
ByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <R> FloatArray.maxOfWith(comparator:
Comparator<in R>, selector: (Float) -> R): R { \n if (isEmpty()) throw NoSuchElementException() \n var
maxValue = selector(this[0]) \n for (i in 1..lastIndex) { \n val v = selector(this[i]) \n if
(comparator.compare(maxValue, v) < 0) { \n maxValue = v \n } \n } \n return maxValue \n } \n } \n ** \n *

```

Returns the largest value according to the provided [comparator] * among all values produced by [selector] function applied to each element in the array. * @throws NoSuchElementException if the array is empty. *

```

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
ByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <R> DoubleArray.maxOfWith(comparator:
Comparator<in R>, selector: (Double) -> R): R { \n if (isEmpty()) throw NoSuchElementException() \n var
maxValue = selector(this[0]) \n for (i in 1..lastIndex) { \n val v = selector(this[i]) \n if
(comparator.compare(maxValue, v) < 0) { \n maxValue = v \n } \n } \n return maxValue \n } \n } \n ** \n *

```

Returns the largest value according to the provided [comparator] * among all values produced by [selector] function applied to each element in the array. * @throws NoSuchElementException if the array is empty. *

```

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
ByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <R> BooleanArray.maxOfWith(comparator:
Comparator<in R>, selector: (Boolean) -> R): R { \n if (isEmpty()) throw NoSuchElementException() \n var
maxValue = selector(this[0]) \n for (i in 1..lastIndex) { \n val v = selector(this[i]) \n if
(comparator.compare(maxValue, v) < 0) { \n maxValue = v \n } \n } \n return maxValue \n } \n } \n ** \n *

```

Returns the largest value according to the provided [comparator] * among all values produced by [selector] function applied to each element in the array. * @throws NoSuchElementException if the array is empty. *

```

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
ByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <R> CharArray.maxOfWith(comparator:
Comparator<in R>, selector: (Char) -> R): R { \n if (isEmpty()) throw NoSuchElementException() \n var
maxValue = selector(this[0]) \n for (i in 1..lastIndex) { \n val v = selector(this[i]) \n if
(comparator.compare(maxValue, v) < 0) { \n maxValue = v \n } \n } \n return maxValue \n } \n } \n ** \n *

```

Returns the largest value according to the provided [comparator] * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements. *

```

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
ByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <T, R> Array<out
T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? { \n if (isEmpty()) return null \n
var maxValue = selector(this[0]) \n for (i in 1..lastIndex) { \n val v = selector(this[i]) \n if
(comparator.compare(maxValue, v) < 0) { \n maxValue = v \n } \n } \n return maxValue \n } \n } \n ** \n *

```

Returns the largest value according to the provided [comparator] * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements. *

```

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
ByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <R>
ByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? { \n if (isEmpty()) return
null \n var maxValue = selector(this[0]) \n for (i in 1..lastIndex) { \n val v = selector(this[i]) \n if

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(comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n    if (isEmpty())\n        return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n            (comparator.compare(maxValue, v) < 0) {\n                maxValue = v\n            }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nIntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n    if (isEmpty()) return\n    null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n            (comparator.compare(maxValue, v) < 0) {\n                maxValue = v\n            }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nLongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n    if (isEmpty())\n        return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n            (comparator.compare(maxValue, v) < 0) {\n                maxValue = v\n            }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nFloatArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n    if (isEmpty())\n        return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n            (comparator.compare(maxValue, v) < 0) {\n                maxValue = v\n            }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nDoubleArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n    if (isEmpty())\n        return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n            (comparator.compare(maxValue, v) < 0) {\n                maxValue = v\n            }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nBooleanArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n    if (isEmpty())\n        return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n            (comparator.compare(maxValue, v) < 0) {\n                maxValue = v\n            }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nCharArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n    if (isEmpty()) return

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null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.4")\npublic fun Array<out Double>.maxOrNull(): Double? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n return
max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN`
returns `NaN`.\n */\n@SinceKotlin("1.4")\npublic fun Array<out Float>.maxOrNull(): Float? {\n if (isEmpty())
return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n
return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.maxOrNull(): T? {\n if (isEmpty())
return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n
return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun ByteArray.maxOrNull(): Byte? {\n if (isEmpty()) return null\n var max =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun
ShortArray.maxOrNull(): Short? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun IntArray.maxOrNull(): Int? {\n if (isEmpty())
return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n
return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun LongArray.maxOrNull(): Long? {\n if (isEmpty()) return null\n var max
= this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.4")\npublic fun FloatArray.maxOrNull(): Float? {\n if (isEmpty()) return null\n var max
= this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n return
max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN`
returns `NaN`.\n */\n@SinceKotlin("1.4")\npublic fun DoubleArray.maxOrNull(): Double? {\n if (isEmpty())
return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n
return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun CharArray.maxOrNull(): Char? {\n if (isEmpty()) return null\n var max =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return
max\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun IntArray.maxWith(comparator: Comparator<in Int>): Int? {\n return
maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun LongArray.maxWith(comparator: Comparator<in Long>): Long? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince

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= \"1.5\", hiddenSince = \"1.6\")\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\",
ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\", hiddenSince = \"1.6\")\npublic fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double?
{\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\",
ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\", hiddenSince = \"1.6\")\npublic fun BooleanArray.maxWith(comparator: Comparator<in Boolean>):
Boolean? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\",
ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\", hiddenSince = \"1.6\")\npublic fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {\n
return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the
provided [comparator] or `null` if there are no elements.\n *^\n@SinceKotlin(\"1.4\")\npublic fun <T> Array<out
T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if (comparator.compare(max, e) < 0) max = e\n
}\n
return
max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n *^\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.maxWithOrNull(comparator:
Comparator<in Byte>): Byte? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if (comparator.compare(max, e) < 0) max = e\n
}\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n *^\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.maxWithOrNull(comparator: Comparator<in Short>): Short? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if
(comparator.compare(max, e) < 0) max = e\n
}\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n *^\n@SinceKotlin(\"1.4\")\npublic fun IntArray.maxWithOrNull(comparator: Comparator<in Int>): Int? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if
(comparator.compare(max, e) < 0) max = e\n
}\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n *^\n@SinceKotlin(\"1.4\")\npublic fun LongArray.maxWithOrNull(comparator: Comparator<in Long>): Long? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if
(comparator.compare(max, e) < 0) max = e\n
}\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n *^\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.maxWithOrNull(comparator: Comparator<in Float>): Float? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if
(comparator.compare(max, e) < 0) max = e\n
}\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n *^\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.maxWithOrNull(comparator: Comparator<in Double>):
Double? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if
(comparator.compare(max, e) < 0) max = e\n
}\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n *^\n@SinceKotlin(\"1.4\")\npublic fun BooleanArray.maxWithOrNull(comparator: Comparator<in Boolean>):
Boolean? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if
(comparator.compare(max, e) < 0) max = e\n
}\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n *^\n@SinceKotlin(\"1.4\")\npublic fun CharArray.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if
(comparator.compare(max, e) < 0) max = e\n
}\n
return max\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\n\n@SinceKotlin(\"1.1\")\npublic fun Array<out Double>.min(): Double? {\n
return

```



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minOrNull()\n}\n\n@Deprecated(\\"Use minOrNull instead.\",
ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince = \\"1.5\",
hiddenSince = \\"1.6\")\n\n@SinceKotlin(\\"1.1\")\n\npublic fun Array<out Float>.min(): Float? {\n    return
minOrNull()\n}\n\n\n@Deprecated(\\"Use minOrNull instead.\",
ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince = \\"1.5\",
hiddenSince = \\"1.6\")\n\npublic fun <T : Comparable<T>> Array<out T>.min(): T? {\n    return
minOrNull()\n}\n\n\n@Deprecated(\\"Use minOrNull instead.\",
ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince = \\"1.5\",
hiddenSince = \\"1.6\")\n\npublic fun ByteArray.min(): Byte? {\n    return minOrNull()\n}\n\n\n@Deprecated(\\"Use
minOrNull instead.\", ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\",
errorSince = \\"1.5\", hiddenSince = \\"1.6\")\n\npublic fun ShortArray.min(): Short? {\n    return
minOrNull()\n}\n\n\n@Deprecated(\\"Use minOrNull instead.\",
ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince = \\"1.5\",
hiddenSince = \\"1.6\")\n\npublic fun IntArray.min(): Int? {\n    return minOrNull()\n}\n\n\n@Deprecated(\\"Use
minOrNull instead.\", ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\",
errorSince = \\"1.5\", hiddenSince = \\"1.6\")\n\npublic fun LongArray.min(): Long? {\n    return
minOrNull()\n}\n\n\n@Deprecated(\\"Use minOrNull instead.\",
ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince = \\"1.5\",
hiddenSince = \\"1.6\")\n\npublic fun FloatArray.min(): Float? {\n    return minOrNull()\n}\n\n\n@Deprecated(\\"Use
minOrNull instead.\", ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\",
errorSince = \\"1.5\", hiddenSince = \\"1.6\")\n\npublic fun DoubleArray.min(): Double? {\n    return
minOrNull()\n}\n\n\n@Deprecated(\\"Use minOrNull instead.\",
ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince = \\"1.5\",
hiddenSince = \\"1.6\")\n\npublic fun CharArray.min(): Char? {\n    return minOrNull()\n}\n\n\n@Deprecated(\\"Use
minByOrNull instead.\", ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince =
\\"1.4\", errorSince = \\"1.5\", hiddenSince = \\"1.6\")\n\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minBy(selector: (T) -> R): T? {\n    return minByOrNull(selector)\n}\n\n\n@Deprecated(\\"Use minByOrNull
instead.\", ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\",
errorSince = \\"1.5\", hiddenSince = \\"1.6\")\n\npublic inline fun <R : Comparable<R>> ByteArray.minBy(selector:
(Byte) -> R): Byte? {\n    return minByOrNull(selector)\n}\n\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\n\npublic inline fun <R : Comparable<R>> ShortArray.minBy(selector: (Short) -> R):
Short? {\n    return minByOrNull(selector)\n}\n\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\n\npublic inline fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int?
{\n    return minByOrNull(selector)\n}\n\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\n\npublic inline fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R):
Long? {\n    return minByOrNull(selector)\n}\n\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\n\npublic inline fun <R : Comparable<R>> FloatArray.minBy(selector: (Float) -> R):
Float? {\n    return minByOrNull(selector)\n}\n\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\n\npublic inline fun <R : Comparable<R>> DoubleArray.minBy(selector: (Double) ->
R): Double? {\n    return minByOrNull(selector)\n}\n\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\n\npublic inline fun <R : Comparable<R>> BooleanArray.minBy(selector: (Boolean) -
> R): Boolean? {\n    return minByOrNull(selector)\n}\n\n\n@Deprecated(\\"Use minByOrNull instead.\",

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ReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> CharArray.minBy(selector: (Char) -> R):
Char? {\n    return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the
given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n *@SinceKotlin("1.4")\npublic inline fun <T, R :
Comparable<R>> Array<out T>.minByOrNull(selector: (T) -> R): T? {\n    if (isEmpty()) return null\n    var
minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)
{\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n *@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> ByteArray.minByOrNull(selector: (Byte) -> R): Byte? {\n    if (isEmpty()) return null\n    var
minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)
{\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n *@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> ShortArray.minByOrNull(selector: (Short) -> R): Short? {\n    if (isEmpty()) return null\n    var
minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)
{\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n *@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> IntArray.minByOrNull(selector: (Int) -> R): Int? {\n    if (isEmpty()) return null\n    var minElem
= this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)
{\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n *@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> LongArray.minByOrNull(selector: (Long) -> R): Long? {\n    if (isEmpty()) return null\n    var
minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)
{\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n *@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> FloatArray.minByOrNull(selector: (Float) -> R): Float? {\n    if (isEmpty()) return null\n    var
minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)
{\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n *@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> DoubleArray.minByOrNull(selector: (Double) -> R): Double? {\n    if (isEmpty()) return null\n    var
minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)
{\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n *@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> BooleanArray.minByOrNull(selector: (Boolean) -> R): Boolean? {\n    if (isEmpty()) return

```

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null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var
minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if
(minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n *
Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n *
\n *
@sample samples.collections.Collections.Aggregates.minByOrNull\n *
\n *
@SinceKotlin("1.4")\n\npublic inline fun
<R : Comparable<R>> CharArray.minByOrNull(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n
var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)
{\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
\n *
\n *
@SinceKotlin("1.4")\n\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\n@OverloadResolution
ByLambdaReturnType\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> Array<out T>.minOf(selector: (T) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
\n *
\n *
@SinceKotlin("1.4")\n\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\n@OverloadResolution
ByLambdaReturnType\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ByteArray.minOf(selector: (Byte) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
\n *
\n *
@SinceKotlin("1.4")\n\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\n@OverloadResolution
ByLambdaReturnType\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ShortArray.minOf(selector: (Short) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
\n *
\n *
@SinceKotlin("1.4")\n\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\n@OverloadResolution
ByLambdaReturnType\n\n@kotlin.internal.InlineOnly\n\npublic inline fun IntArray.minOf(selector: (Int) -> Double):
Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
\n *
\n *
@SinceKotlin("1.4")\n\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\n@OverloadResolution
ByLambdaReturnType\n\n@kotlin.internal.InlineOnly\n\npublic inline fun LongArray.minOf(selector: (Long) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
\n *
\n *
@SinceKotlin("1.4")\n\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) ->
Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) -> Float):
Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) ->
Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Float):
Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector: (Long) ->
Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) -> Float):
Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) ->
Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) ->
Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) -> Float):
Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minOf(selector: (T) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (minValue > v) {\n
minValue = v\n    }\n  }\n  return minValue}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.minOf(selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.minOf(selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.minOf(selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.minOf(selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.minOf(selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOf(selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.minOf(selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws

```

NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```
CharArray.minOf(selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue\n    = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of\n * values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOfOrNull(selector:
```

```
(T) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in\n    1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\n    minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n * each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function\n * is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOfOrNull(selector: (Byte) ->
```

```
Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns\n * the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n * if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n * `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOfOrNull(selector: (Short) -
```

```
> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns\n * the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n * if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n * `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOfOrNull(selector: (Int) ->
```

```
Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns\n * the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n * if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n * `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOfOrNull(selector: (Long) -
```

```
> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns\n * the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n * if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n * `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOfOrNull(selector: (Float) ->
```

```
Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns\n * the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n */
```

if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOfOrNull(selector:\n(Double) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\n    minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function\n is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOfOrNull(selector:\n(Boolean) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\n    minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function\n is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOfOrNull(selector: (Char) ->\nDouble): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns\n the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOfOrNull(selector:\n(T) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex)\n    {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array\n or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned\n result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOfOrNull(selector: (Byte) ->\nFloat): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the\n smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if\n there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOfOrNull(selector: (Short) -\n> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the\n smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if\n there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOfOrNull(selector: (Int) ->\nFloat): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the
```


smallest value among all values produced by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOrNull(selector: (Long) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n* Returns the smallest value among all values produced by [selector] function * applied to each element in the array or `null` if there are no elements.  
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOrNull(selector: (Float) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n* Returns the smallest value among all values produced by [selector] function * applied to each element in the array or `null` if there are no elements.  
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOrNull(selector: (Double) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n* Returns the smallest value among all values produced by [selector] function * applied to each element in the array or `null` if there are no elements.  
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOrNull(selector: (Boolean) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n* Returns the smallest value among all values produced by [selector] function * applied to each element in the array or `null` if there are no elements.  
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOrNull(selector: (Char) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n* Returns the smallest value among all values produced by [selector] function * applied to each element in the array or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out T>.minOrNull(selector: (T) -> R): R? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n* Returns the smallest value among all values produced by [selector] function * applied to each element in the array or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ByteArray.minOrNull(selector: (Byte) -> R): R? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n* Returns the smallest value among all values produced
```

```

by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.minOfOrNull(selector: (Short) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.minOfOrNull(selector: (Int) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.minOfOrNull(selector: (Long) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.minOfOrNull(selector: (Float) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOfOrNull(selector: (Double) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.minOfOrNull(selector: (Boolean) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.minOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =

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selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n        minValue = v\n    }\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.minOfWith(comparator:
Comparator<in R>, selector: (Byte) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.minOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.minOfWith(comparator:
Comparator<in R>, selector: (Int) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue
= selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue,
v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.minOfWith(comparator:
Comparator<in R>, selector: (Long) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.minOfWith(comparator:
Comparator<in R>, selector: (Float) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.minOfWith(comparator:
Comparator<in R>, selector: (Double) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.minOfWith(comparator:

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Comparator<in R>, selector: (Boolean) -> R): R { \n    if (isEmpty()) throw NoSuchElementException()\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) { \n        val v = selector(this[i])\n        if\n        (comparator.compare(minValue, v) > 0) { \n            minValue = v\n        } \n    } \n    return minValue\n} \n\nReturns the smallest value according to the provided [comparator] \n * among all values produced by [selector]\n function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n *\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.minOfWith(comparator:\nComparator<in R>, selector: (Char) -> R): R { \n    if (isEmpty()) throw NoSuchElementException()\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) { \n        val v = selector(this[i])\n        if\n        (comparator.compare(minValue, v) > 0) { \n            minValue = v\n        } \n    } \n    return minValue\n} \n\nReturns the smallest value according to the provided [comparator] \n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n *\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out\nT>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? { \n    if (isEmpty()) return null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) { \n        val v = selector(this[i])\n        if\n        (comparator.compare(minValue, v) > 0) { \n            minValue = v\n        } \n    } \n    return minValue\n} \n\nReturns the smallest value according to the provided [comparator] \n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n *\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? { \n    if (isEmpty()) return\n    null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) { \n        val v = selector(this[i])\n        if\n        (comparator.compare(minValue, v) > 0) { \n            minValue = v\n        } \n    } \n    return minValue\n} \n\nReturns the smallest value according to the provided [comparator] \n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n *\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? { \n    if (isEmpty())\n    return null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) { \n        val v = selector(this[i])\n        if\n        (comparator.compare(minValue, v) > 0) { \n            minValue = v\n        } \n    } \n    return minValue\n} \n\nReturns the smallest value according to the provided [comparator] \n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n *\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nIntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? { \n    if (isEmpty()) return\n    null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) { \n        val v = selector(this[i])\n        if\n        (comparator.compare(minValue, v) > 0) { \n            minValue = v\n        } \n    } \n    return minValue\n} \n\nReturns the smallest value according to the provided [comparator] \n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n *\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nLongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? { \n    if (isEmpty()) return\n    null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) { \n        val v = selector(this[i])\n        if\n        (comparator.compare(minValue, v) > 0) { \n            minValue = v\n        } \n    } \n    return minValue\n} \n\nReturns the smallest value according to the provided [comparator] \n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n *\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n  if (isEmpty()) return
null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n  if (isEmpty())
return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n  if (isEmpty())
return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n  if (isEmpty()) return
null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun Array<out Double>.minOrNull(): Double? {\n  if (isEmpty()) return null\n
var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    min = minOf(min, e)\n  }\n  return
min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is
`NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun Array<out Float>.minOrNull(): Float? {\n  if
(isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    min = minOf(min,
e)\n  }\n  return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.minOrNull(): T? {\n  if (isEmpty())
return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (min > e) min = e\n  }\n
return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ByteArray.minOrNull(): Byte? {\n  if (isEmpty()) return null\n  var min =
this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (min > e) min = e\n  }\n  return min\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ShortArray.minOrNull(): Short? {\n  if (isEmpty()) return null\n  var min =
this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (min > e) min = e\n  }\n  return min\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun IntArray.minOrNull(): Int? {\n  if (isEmpty())
return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (min > e) min = e\n  }\n
return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun LongArray.minOrNull(): Long? {\n  if (isEmpty()) return null\n  var min =
this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (min > e) min = e\n  }\n  return min\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun FloatArray.minOrNull(): Float? {\n  if (isEmpty()) return null\n  var min =
this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    min = minOf(min, e)\n  }\n  return min\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n

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(comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun LongArray.minWithOrNull(comparator: Comparator<in Long>): Long? {\n
if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if
(comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun FloatArray.minWithOrNull(comparator: Comparator<in Float>): Float? {\n
if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if
(comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.minWithOrNull(comparator: Comparator<in Double>):
Double? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if
(comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun BooleanArray.minWithOrNull(comparator: Comparator<in Boolean>):
Boolean? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if
(comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun CharArray.minWithOrNull(comparator: Comparator<in Char>): Char? {\n
if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if
(comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns `true` if the array has no
elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n *\npublic fun <T> Array<out
T>.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n *\npublic fun ByteArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\npublic fun ShortArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\npublic fun IntArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\npublic fun LongArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\npublic fun FloatArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\npublic fun DoubleArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\npublic fun BooleanArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\npublic fun CharArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *\npublic inline fun <T> Array<out
T>.none(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *\npublic inline fun ByteArray.none(predicate:
(Byte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *\npublic inline fun ShortArray.none(predicate:
(Short) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample

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samples.collections.Collections.Aggregates.noneWithPredicate\n *^public inline fun IntArray.none(predicate: (Int)
-> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return false\n  return true\n}\n\n/**\n *
Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *^public inline fun LongArray.none(predicate:
(Long) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return false\n  return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *^public inline fun FloatArray.none(predicate:
(Float) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return false\n  return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *^public inline fun DoubleArray.none(predicate:
(Double) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return false\n  return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *^public inline fun
BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
return false\n  return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *^public inline fun CharArray.none(predicate:
(Char) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return false\n  return
true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n
*^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.onEach(action: (T) ->
Unit): Array<out T> {\n  return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEach(action: (Byte) ->
Unit): ByteArray {\n  return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.onEach(action: (Short) ->
Unit): ShortArray {\n  return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.onEach(action: (Int) -> Unit):
IntArray {\n  return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on
each element and returns the array itself afterwards.\n
*^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.onEach(action: (Long) ->
Unit): LongArray {\n  return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEach(action: (Float) ->
Unit): FloatArray {\n  return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEach(action: (Double) ->
Unit): DoubleArray {\n  return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.onEach(action: (Boolean)
-> Unit): BooleanArray {\n  return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.onEach(action: (Char) ->
Unit): CharArray {\n  return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n *
@param [action] function that takes the index of an element and the element itself\n * and performs the action on
the element.\n *^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out
T>.onEachIndexed(action: (index: Int, T) -> Unit): Array<out T> {\n  return apply { forEachIndexed(action)

```



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    }
}

/** Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEachIndexed(action: (index: Int, Byte) -> Unit): ByteArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly\npublic inline fun ShortArray.onEachIndexed(action: (index: Int, Short) -> Unit): ShortArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly\npublic inline fun IntArray.onEachIndexed(action: (index: Int, Int) -> Unit): IntArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly\npublic inline fun LongArray.onEachIndexed(action: (index: Int, Long) -> Unit): LongArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEachIndexed(action: (index: Int, Float) -> Unit): FloatArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEachIndexed(action: (index: Int, Double) -> Unit): DoubleArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.onEachIndexed(action: (index: Int, Boolean) -> Unit): BooleanArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly\npublic inline fun CharArray.onEachIndexed(action: (index: Int, Char) -> Unit): CharArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce\n
 */
@public inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {
    if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce\n
 */
@public inline fun

```

```

ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {
    if (isEmpty())
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right
to current accumulator value and each element.
Throws an exception if this array is empty. If the array can be empty
in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes current accumulator value and an element
and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduce
public inline fun

ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {
    if (isEmpty())
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right
to current accumulator value and each element.
Throws an exception if this array is empty. If the array can be empty
in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes current accumulator value and an element
and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduce
public inline fun

IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {
    if (isEmpty())
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right
to current accumulator value and each element.
Throws an exception if this array is empty. If the array can be empty
in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes current accumulator value and an element
and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduce
public inline fun

LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {
    if (isEmpty())
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right
to current accumulator value and each element.
Throws an exception if this array is empty. If the array can be empty
in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes current accumulator value and an element
and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduce
public inline fun

FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {
    if (isEmpty())
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right
to current accumulator value and each element.
Throws an exception if this array is empty. If the array can be empty
in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes current accumulator value and an element
and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduce
public inline fun

DoubleArray.reduce(operation: (acc: Double, Double) -> Double): Double {
    if (isEmpty())
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right
to current accumulator value and each element.
Throws an exception if this array is empty. If the array can be empty
in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes current accumulator value and an element
and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduce
public inline fun

```

```

BooleanArray.reduce(operation: (acc: Boolean, Boolean) -> Boolean): Boolean {\n  if (isEmpty())\n    throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = this[0]\n  for (index in
1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty
in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {\n  if (isEmpty())\n    throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = this[0]\n  for (index in
1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is
empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null`
when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Array<out
T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n  if (isEmpty())\n    throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator: S = this[0]\n  for (index
in 1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {\n  if (isEmpty())\n    throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = this[0]\n  for (index in
1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {\n  if (isEmpty())\n    throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = this[0]\n  for (index in
1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {\n  if (isEmpty())\n    throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = this[0]\n  for (index in
1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to

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right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
LongArray.reduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): Long {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {\n if (isEmpty())\n
throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean {\n if
(isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator =
this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from
left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws
an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function
that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.reduceOrNull\n *^@SinceKotlin("1.4")\npublic inline fun <S, T : S>
Array<out T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n if (isEmpty())\n return
null\n var accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n^@SinceKotlin("1.4")\npublic inline fun ByteArray.reduceIndexedOrNull(operation: (index: Int, acc: Byte,
Byte) -> Byte): Byte? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n *^@SinceKotlin("1.4")\npublic inline fun
ShortArray.reduceIndexedOrNull(operation: (index: Int, acc: Short, Short) -> Short): Short? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n^@SinceKotlin("1.4")\npublic inline fun IntArray.reduceIndexedOrNull(operation: (index: Int, acc: Int, Int) ->
Int): Int? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n
accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the first element and applying [operation] from left to right\n * to current accumulator value and
each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, current accumulator value and the element itself,\n * and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n^@SinceKotlin("1.4")\npublic inline fun LongArray.reduceIndexedOrNull(operation: (index: Int, acc: Long,
Long) -> Long): Long? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n *^@SinceKotlin("1.4")\npublic inline fun
FloatArray.reduceIndexedOrNull(operation: (index: Int, acc: Float, Float) -> Float): Float? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n^@SinceKotlin("1.4")\npublic inline fun DoubleArray.reduceIndexedOrNull(operation: (index: Int, acc:
Double, Double) -> Double): Double? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return

```

accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample

```

samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun
BooleanArray.reduceIndexedOrNull(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean? {\n if
(isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element
with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\npublic inline fun CharArray.reduceIndexedOrNull(operation: (index: Int, acc: Char,
Char) -> Char): Char? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Array<out T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n if (isEmpty())\n return null\n var
accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n
* \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n
* \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short? {\n if (isEmpty())\n return null\n
var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n
* \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n
* \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun

```

```

LongArray.reduceOrNull(operation: (acc: Long, Long) -> Long): Long? {\n  if (isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]\n * from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next\n * accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun\nFloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {\n  if (isEmpty())\n    return null\n  var\n  accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]\n * from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next\n * accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun\nDoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {\n  if (isEmpty())\n    return\n    null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(accumulator,\n    this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and\n * applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if\n * the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next\n * accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun\nBooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {\n  if (isEmpty())\n    return\n    null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =\n    operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the\n * first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and\n * an element,\n * and calculates the next\n * accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun\nCharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n  if (isEmpty())\n    return\n    null\n  var\n  accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]\n * from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is\n * empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null`\n * when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator\n * value,\n * and calculates the next\n * accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Array<out\n T>.reduceRight(operation: (T, acc: S) -> S): S {\n  var index = lastIndex\n  if (index < 0) throw\n  UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator: S = get(index--)\n  while\n  (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and\n * current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an\n * expected way,\n * please use [reduceRightOrNull] instead. It returns `null`\n * when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next\n * accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun\nByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {\n  var index = lastIndex\n  if (index < 0)\n  throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = get(index--)\n}

```

```

while (index >= 0) {
    accumulator = operation(get(index--), accumulator)
}
return accumulator
}
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRight

```

public inline fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {
 var index = lastIndex
 if (index < 0) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}
}

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRight

```

public inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {
 var index = lastIndex
 if (index < 0) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}
}

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRight

```

public inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {
 var index = lastIndex
 if (index < 0) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}
}

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRight

```

public inline fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {
 var index = lastIndex
 if (index < 0) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}
}

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRight

```

public inline fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {
 var index = lastIndex
 if (index < 0) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}
}

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

@sample


```

samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun
BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {\n  var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If
the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun CharArray.reduceRight(operation:
(Char, acc: Char) -> Char): Char {\n  var index = lastIndex\n  if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = get(index--)\n  while
(index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If
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when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element
itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun <S, T : S> Array<out
T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n  var index = lastIndex\n  if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator: S = get(index--)\n  while
(index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic
inline fun ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {\n  var index =
lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var
accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n *
\n * @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun
ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {\n  var index =
lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var
accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n *
\n * @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun

```

```

IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduceRight

```

```

public inline fun LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceRight

```

public inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceRight

```

public inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceRight

```

public inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRight\n *^\npublic inline fun
CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n  var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException("\nEmpty array can't be reduced.\n")\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n
  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the
element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\n@SinceKotlin("1.4")\npublic inline fun <S,
T : S> Array<out T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n  var index =
lastIndex\n  if (index < 0) return null\n  var accumulator: S = get(index--)\n  while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\n@SinceKotlin("1.4")\npublic inline fun
ByteArray.reduceRightIndexedOrNull(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte? {\n  var index =
lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\n@SinceKotlin("1.4")\npublic inline fun
ShortArray.reduceRightIndexedOrNull(operation: (index: Int, Short, acc: Short) -> Short): Short? {\n  var index =
lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\n@SinceKotlin("1.4")\npublic inline fun
IntArray.reduceRightIndexedOrNull(operation: (index: Int, Int, acc: Int) -> Int): Int? {\n  var index = lastIndex\n
if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator =
operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates
value starting with the last element and applying [operation] from right to left\n * to each element with its index in
the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, the element itself and current accumulator value,\n * and
calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\n@SinceKotlin("1.4")\npublic inline fun
LongArray.reduceRightIndexedOrNull(operation: (index: Int, Long, acc: Long) -> Long): Long? {\n  var index =
lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\\n@SinceKotlin("\\1.4")\\npublic inline fun
FloatArray.reduceRightIndexedOrNull(operation: (index: Int, Float, acc: Float) -> Float): Float? {\\n  var index =
lastIndex\\n  if (index < 0) return null\\n  var accumulator = get(index--)\\n  while (index >= 0) {\\n
accumulator = operation(index, get(index), accumulator)\\n    --index\\n  }\\n  return accumulator\\n}\\n\\n/**\\n *
Accumulates value starting with the last element and applying [operation] from right to left\\n * to each element with
its index in the original array and current accumulator value.\\n * \\n * Returns `null` if the array is empty.\\n * \\n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\\n
* and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\\n@SinceKotlin("\\1.4")\\npublic inline fun
DoubleArray.reduceRightIndexedOrNull(operation: (index: Int, Double, acc: Double) -> Double): Double? {\\n  var
index = lastIndex\\n  if (index < 0) return null\\n  var accumulator = get(index--)\\n  while (index >= 0) {\\n
accumulator = operation(index, get(index), accumulator)\\n    --index\\n  }\\n  return accumulator\\n}\\n\\n/**\\n *
Accumulates value starting with the last element and applying [operation] from right to left\\n * to each element with
its index in the original array and current accumulator value.\\n * \\n * Returns `null` if the array is empty.\\n * \\n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\\n
* and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\\n@SinceKotlin("\\1.4")\\npublic inline fun
BooleanArray.reduceRightIndexedOrNull(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean? {\\n
var index = lastIndex\\n  if (index < 0) return null\\n  var accumulator = get(index--)\\n  while (index >= 0) {\\n
accumulator = operation(index, get(index), accumulator)\\n    --index\\n  }\\n  return accumulator\\n}\\n\\n/**\\n *
Accumulates value starting with the last element and applying [operation] from right to left\\n * to each element with
its index in the original array and current accumulator value.\\n * \\n * Returns `null` if the array is empty.\\n * \\n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\\n
* and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\\n@SinceKotlin("\\1.4")\\npublic inline fun
CharArray.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {\\n  var index =
lastIndex\\n  if (index < 0) return null\\n  var accumulator = get(index--)\\n  while (index >= 0) {\\n
accumulator = operation(index, get(index), accumulator)\\n    --index\\n  }\\n  return accumulator\\n}\\n\\n/**\\n *
Accumulates value starting with the last element and applying [operation] from right to left\\n * to each element and
current accumulator value.\\n * \\n * Returns `null` if the array is empty.\\n * \\n * @param [operation] function that
takes an element and current accumulator value,\\n * and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\\n@SinceKotlin("\\1.4")\\n@WasExperimental(ExperimentalStdlibApi::class)\\npublic inline fun <S, T : S>
Array<out T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\\n  var index = lastIndex\\n  if (index < 0)
return null\\n  var accumulator: S = get(index--)\\n  while (index >= 0) {\\n    accumulator = operation(get(index--
), accumulator)\\n  }\\n  return accumulator\\n}\\n\\n/**\\n * Accumulates value starting with the last element and
applying [operation] from right to left\\n * to each element and current accumulator value.\\n * \\n * Returns `null` if
the array is empty.\\n * \\n * @param [operation] function that takes an element and current accumulator value,\\n *
and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\\n@SinceKotlin("\\1.4")\\n@WasExperimental(ExperimentalStdlibApi::class)\\npublic inline fun
ByteArray.reduceRightOrNull(operation: (Byte, acc: Byte) -> Byte): Byte? {\\n  var index = lastIndex\\n  if (index
< 0) return null\\n  var accumulator = get(index--)\\n  while (index >= 0) {\\n    accumulator =
operation(get(index--), accumulator)\\n  }\\n  return accumulator\\n}\\n\\n/**\\n * Accumulates value starting with the
last element and applying [operation] from right to left\\n * to each element and current accumulator value.\\n * \\n *
Returns `null` if the array is empty.\\n * \\n * @param [operation] function that takes an element and current
accumulator value,\\n * and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ShortArray.reduceRightOrNull(operation: (Short, acc: Short) -> Short): Short? {\n  var index = lastIndex\n  if
(index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator =
operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
IntArray.reduceRightOrNull(operation: (Int, acc: Int) -> Int): Int? {\n  var index = lastIndex\n  if (index < 0)
return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--),
accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and
applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null`
if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
LongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long? {\n  var index = lastIndex\n  if
(index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator =
operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
FloatArray.reduceRightOrNull(operation: (Float, acc: Float) -> Float): Float? {\n  var index = lastIndex\n  if
(index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator =
operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
DoubleArray.reduceRightOrNull(operation: (Double, acc: Double) -> Double): Double? {\n  var index =
lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element and current accumulator
value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {\n  var index =
lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element and current accumulator
value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharArray.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n    var index = lastIndex\n    if (index
< 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator =
operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each element and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\npublic inline fun
<T, R> Array<out T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\n    if (isEmpty()) return
listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for
(element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n *
\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.runningFold(initial: R,
operation: (acc: R, Byte) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator =
operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.runningFold(initial: R,
operation: (acc: R, Short) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator =
operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.runningFold(initial: R,
operation: (acc: R, Int) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator =
operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.runningFold(initial: R,
operation: (acc: R, Long) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator =

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operation(accumulator, element)\n    result.add(accumulator)\n } \n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.runningFold(initial: R,
operation: (acc: R, Float) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator =
operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.runningFold(initial: R,
operation: (acc: R, Double) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result =
ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n
accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.runningFold(initial:
R, operation: (acc: R, Boolean) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result =
ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n
accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.runningFold(initial: R,
operation: (acc: R, Char) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator =
operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n *
and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\npublic inline fun <T, R>
Array<out T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n    if (isEmpty())
return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n
for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and

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current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n * \n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <R>
ByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n * \n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <R>
ShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n * \n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <R>
IntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n * \n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <R>
LongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n * \n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <R>
FloatArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n


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result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n    if
(isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator =
initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n    if
(isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator =
initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n    if (isEmpty())
return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n
for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes current accumulator value and the element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Array<out T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n    if (isEmpty()) return emptyList()\n    var
accumulator: S = this[0]\n    val result = ArrayList<S>(size).apply { add(accumulator) }\n    for (index in 1 until
size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n *
Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous
value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.runningReduce(operation:
(acc: Byte, Byte) -> Byte): List<Byte> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val
result = ArrayList<Byte>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator =
operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list

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containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.runningReduce(operation: (acc: Short, Short) -> Short): List<Short> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Short>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.runningReduce(operation: (acc: Int, Int) -> Int): List<Int> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Int>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.runningReduce(operation: (acc: Long, Long) -> Long): List<Long> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Long>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduce(operation: (acc: Float, Float) -> Float): List<Float> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Float>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.runningReduce(operation: (acc: Double, Double) -> Double): List<Double> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Double>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.runningReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Boolean>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n
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* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with the first element of this array. @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. @sample samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.runningReduce(operation:  
(acc: Char, Char) -> Char): List<Char> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Char>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator =  
operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list  
containing successive accumulation values generated by applying [operation] from left to right to each element,  
its index in the original array and current accumulator value that starts with the first element of this array.Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the  
previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current  
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample  
samples.collections.Collections.Aggregates.runningReduce
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```
*\n@SinceKotlin("1.4")\npublic inline fun <S, T :  
S> Array<out T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n    if (isEmpty()) return  
emptyList()\n    var accumulator: S = this[0]\n    val result = ArrayList<S>(size).apply { add(accumulator) }\n    for  
(index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation  
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accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun  
ByteArray.runningReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {\n    if (isEmpty())  
return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Byte>(size).apply { add(accumulator)  
}\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation  
values generated by applying [operation] from left to right to each element, its index in the original array and  
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that  
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next  
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce
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*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun  
ShortArray.runningReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {\n    if  
(isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Short>(size).apply {  
add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation  
values generated by applying [operation] from left to right to each element, its index in the original array and  
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that  
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next  
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce
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*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun  
IntArray.runningReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {\n    if (isEmpty()) return  
emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Int>(size).apply { add(accumulator) }\n    for  
(index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation  
values generated by applying [operation] from left to right to each element, its index in the original array and  
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that  
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next  
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*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun  
IntArray.runningReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {\n    if (isEmpty()) return  
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(index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation  
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takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
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accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.runningReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> {\n  if
(isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Long>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.runningReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {\n  if
(isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Float>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
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takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.runningReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> {\n  if
(isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Double>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.runningReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean>
{\n  if (isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result =
ArrayList<Boolean>(size).apply { add(accumulator) }\n  for (index in 1 until size) {\n    accumulator =
operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element, its index in the original array and current accumulator value that starts with the first element of this
array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and
the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n  if (isEmpty())
return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Char>(size).apply { add(accumulator)
}\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n  return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> {\n  return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ShortArray.scan(initial: R, operation: (acc: R, Short) -> R): List<R> {\n  return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {\n  return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.scan(initial: R, operation: (acc: R, Long) -> R): List<R> {\n  return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {\n  return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {\n  return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by

```

applying [operation] from left to right
to each element and current accumulator value that starts with [initial] value.
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.scan

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.  
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
 * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.  
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
 * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R> Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.  
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
 * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.  
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
 * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.  
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
 * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
```

generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n    return\n    runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n    return\n    runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n    return\n    runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n    return\n    runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n    return\n    runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n * applied to each element in the array.\n * \n * @Deprecated("Use sumOf instead.",\n * ReplaceWith("this.sumOf(selector)"))\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * public inline fun <T>\n * Array<out T>.sumBy(selector: (T) -> Int): Int {\n *     var sum: Int = 0\n *     for (element in this) {\n *         sum +=\n *         selector(element)\n *     }\n *     return sum\n * }\n\n/**\n * Returns the sum of all values produced by [selector] function\n * applied to each element in the array.\n * \n * @Deprecated("Use sumOf instead.",\n * ReplaceWith("this.sumOf(selector)"))\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * public inline fun\n * ByteArray.sumBy(selector: (Byte) -> Int): Int {\n *     var sum: Int = 0\n *     for (element in this) {\n *         sum +=\n *         selector(element)\n *     }\n *     return sum\n * }\n\n/**\n * Returns the sum of all values produced by [selector] function
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applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
ShortArray.sumBy(selector: (Short) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
IntArray.sumBy(selector: (Int) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
LongArray.sumBy(selector: (Long) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
FloatArray.sumBy(selector: (Float) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
DoubleArray.sumBy(selector: (Double) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
BooleanArray.sumBy(selector: (Boolean) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharArray.sumBy(selector: (Char) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun <T>
Array<out T>.sumByDouble(selector: (T) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
ByteArray.sumByDouble(selector: (Byte) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
ShortArray.sumByDouble(selector: (Short) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
IntArray.sumByDouble(selector: (Int) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n
        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
LongArray.sumByDouble(selector: (Long) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by

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[selector] function applied to each element in the array.\n *\n@Deprecated(\\"Use sumOf instead.\",
ReplaceWith(\\"this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.5\")\npublic inline fun
FloatArray.sumByDouble(selector: (Float) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/>\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n *\n@Deprecated(\\"Use sumOf instead.\",
ReplaceWith(\\"this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.5\")\npublic inline fun
DoubleArray.sumByDouble(selector: (Double) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/>\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n *\n@Deprecated(\\"Use sumOf instead.\",
ReplaceWith(\\"this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.5\")\npublic inline fun
BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {\n    var sum: Double = 0.0\n    for (element
in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/>\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n *\n@Deprecated(\\"Use sumOf instead.\",
ReplaceWith(\\"this.sumOf(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.5\")\npublic inline fun
CharArray.sumByDouble(selector: (Char) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/>\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.sumOf(selector: (T) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element
in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/>\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.sumOf(selector: (Byte) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/>\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sumOf(selector: (Short) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/>\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.sumOf(selector: (Int) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/>\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sumOf(selector: (Long) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/>\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sumOf(selector: (Float) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/>\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sumOf(selector: (Double) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element
in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.sumOf(selector: (Boolean) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for
(element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.sumOf(selector: (Char) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element in
this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Array<out T>.sumOf(selector: (T) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.sumOf(selector: (Byte) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sumOf(selector: (Short) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.sumOf(selector: (Int) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sumOf(selector: (Long) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sumOf(selector: (Float) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sumOf(selector: (Double) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n
sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]

```

function applied to each element in the array.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nBooleanArray.sumOf(selector: (Boolean) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n * function applied to each element in the array.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nCharArray.sumOf(selector: (Char) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum +=\n        selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n * applied to each element in the array.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun\n<T> Array<out T>.sumOf(selector: (T) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this)\n    {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by\n * [selector] function applied to each element in the array.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun\nByteArray.sumOf(selector: (Byte) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n * function applied to each element in the array.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun\nShortArray.sumOf(selector: (Short) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n * function applied to each element in the array.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun\nIntArray.sumOf(selector: (Int) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n * function applied to each element in the array.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun\nLongArray.sumOf(selector: (Long) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n * function applied to each element in the array.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun\nFloatArray.sumOf(selector: (Float) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n * function applied to each element in the array.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun\nDoubleArray.sumOf(selector: (Double) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this)\n    {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by\n * [selector] function applied to each element in the array.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
```

```

BooleanArray.sumOf(selector: (Boolean) -> Long): Long {\n  var sum: Long = 0.toLong()\n  for (element in this)\n  {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/* Returns the sum of all values produced by\n[selector] function applied to each element in the array.\n\n*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun\nCharArray.sumOf(selector: (Char) -> Long): Long {\n  var sum: Long = 0.toLong()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/* Returns the sum of all values produced by [selector]\nfunction applied to each element in the array.\n\n*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType\ns::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> UInt): UInt {\n  var sum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return\nsum\n}\n\n/* Returns the sum of all values produced by [selector] function applied to each element in the\narray.\n\n*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType\ns::class)\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> UInt): UInt {\n  var\nsum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/* Returns the sum of all values produced by [selector] function applied to each element in the array.\n\n*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType\ns::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> UInt): UInt {\n  var\nsum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/* Returns the sum of all values produced by [selector] function applied to each element in the array.\n\n*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType\ns::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> UInt): UInt {\n  var\nsum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/* Returns the sum of all values produced by [selector] function applied to each element in the array.\n\n*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType\ns::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> UInt): UInt {\n  var\nsum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/* Returns the sum of all values produced by [selector] function applied to each element in the array.\n\n*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType\ns::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> UInt): UInt {\n  var\nsum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/* Returns the sum of all values produced by [selector] function applied to each element in the array.\n\n*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType\ns::class)\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> UInt): UInt {\n  var\nsum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return\nsum\n}\n\n/* Returns the sum of all values produced by [selector] function applied to each element in the\narray.\n\n*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType\ns::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> UInt): UInt

```

```

{\n  var sum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> UInt): UInt {\n  var
sum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> ULong):
ULong {\n  var sum: ULong = 0.toULong()\n  for (element in this) {\n    sum += selector(element)\n  }\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> ULong): ULong
{\n  var sum: ULong = 0.toULong()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> ULong): ULong
{\n  var sum: ULong = 0.toULong()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> ULong): ULong {\n
var sum: ULong = 0.toULong()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> ULong): ULong
{\n  var sum: ULong = 0.toULong()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> ULong): ULong
{\n  var sum: ULong = 0.toULong()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> ULong):
ULong {\n  var sum: ULong = 0.toULong()\n  for (element in this) {\n    sum += selector(element)\n  }\n
}

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return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong):
ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> ULong): ULong
{\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an
[IllegalArgumentException] if there are any `null` elements.\n *\npublic fun <T : Any>
Array<T?>.requireNonNulls(): Array<T> {\n    for (element in this) {\n        if (element == null) {\n            throw
IllegalArgumentException("null element found in $this.")\n        }\n    }\n
@Suppress("UNCHECKED_CAST")\n    return this as Array<T>}\n\n/**\n * Splits the original array into pair
of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n *\npublic inline fun <T> Array<out
T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n    val first = ArrayList<T>()\n    val second =
ArrayList<T>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n        } else {\n
second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair
of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n *\npublic inline fun
ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {\n    val first =
ArrayList<Byte>()\n    val second = ArrayList<Byte>()\n    for (element in this) {\n        if (predicate(element)) {\n
first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n *\npublic inline fun
ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {\n    val first =
ArrayList<Short>()\n    val second = ArrayList<Short>()\n    for (element in this) {\n        if (predicate(element)) {\n
first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n *\npublic inline fun
IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {\n    val first = ArrayList<Int>()\n    val
second = ArrayList<Int>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n
        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Splits the original
array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while
*second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n *\npublic inline fun
LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {\n    val first =
ArrayList<Long>()\n    val second = ArrayList<Long>()\n    for (element in this) {\n        if (predicate(element)) {\n
first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which

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[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n *^\npublic inline fun
FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {\n  val first =
ArrayList<Float>()\n  val second = ArrayList<Float>()\n  for (element in this) {\n    if (predicate(element)) {\n
      first.add(element)\n    } else {\n      second.add(element)\n    }\n  }\n  return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n *^\npublic inline fun
DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {\n  val first =
ArrayList<Double>()\n  val second = ArrayList<Double>()\n  for (element in this) {\n    if (predicate(element))
{\n      first.add(element)\n    } else {\n      second.add(element)\n    }\n  }\n  return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n *^\npublic inline fun
BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {\n  val first =
ArrayList<Boolean>()\n  val second = ArrayList<Boolean>()\n  for (element in this) {\n    if
(predicate(element)) {\n      first.add(element)\n    } else {\n      second.add(element)\n    }\n  }\n  return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n *^\npublic inline fun
CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n  val
first = ArrayList<Char>()\n  val second = ArrayList<Char>()\n  for (element in this) {\n    if
(predicate(element)) {\n      first.add(element)\n    } else {\n      second.add(element)\n    }\n  }\n  return Pair(first, second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other]
array with the same index.\n * The returned list has length of the shortest collection.\n * \n *
@sample
samples.collections.Iterables.Operations.zipIterable\n *^\npublic infix fun <T, R> Array<out T>.zip(other:
Array<out R>): List<Pair<T, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterable\n *^\npublic infix fun
<R> ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>> {\n  return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n *
@sample
samples.collections.Iterables.Operations.zipIterable\n *^\npublic infix fun <R> ShortArray.zip(other: Array<out
R>): List<Pair<Short, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterable\n *^\npublic infix fun <R>
IntArray.zip(other: Array<out R>): List<Pair<Int, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n *
@sample
samples.collections.Iterables.Operations.zipIterable\n *^\npublic infix fun <R> LongArray.zip(other: Array<out
R>): List<Pair<Long, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterable\n *^\npublic infix fun <R>
FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n *
@sample
samples.collections.Iterables.Operations.zipIterable\n *^\npublic infix fun <R> DoubleArray.zip(other: Array<out
R>): List<Pair<Double, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built

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T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a

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ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n
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*public inline fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}
* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
* The returned list has length of the shortest collection.
* @sample
samples.collections.Iterables.Operations.zipIterable

*public infix fun ByteArray.zip(other: ByteArray): List<Pair<Byte, Byte>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
* The returned list has length of the shortest collection.
* @sample
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*public infix fun ShortArray.zip(other: ShortArray): List<Pair<Short, Short>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
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* @sample
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*public infix fun IntArray.zip(other: IntArray): List<Pair<Int, Int>> {
    return zip(other) { t1, t2 -> t1 to t2 }
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* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
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* @sample
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*public infix fun LongArray.zip(other: LongArray): List<Pair<Long, Long>> {
    return zip(other) { t1, t2 -> t1 to t2 }
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* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
* The returned list has length of the shortest collection.
* @sample
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*public infix fun FloatArray.zip(other: FloatArray): List<Pair<Float, Float>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
* The returned list has length of the shortest collection.
* @sample
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*public infix fun DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
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*public infix fun BooleanArray.zip(other: BooleanArray): List<Pair<Boolean, Boolean>> {
    return zip(other) { t1, t2 -> t1 to t2 }
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* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
* The returned list has length of the shortest collection.
* @sample
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*public infix fun CharArray.zip(other: CharArray): List<Pair<Char, Char>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
* Returns a list of values built from the elements of `this` array and the [other] array with the same index
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* @sample
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*public inline fun <V> ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
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other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i],
other[i]))\n    }\n    return list\}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the
given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value
of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string
(which defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun
<T, A : Appendable> Array<out T>.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\"",
postfix: CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? =
null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1)
buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            buffer.appendElement(element, transform)\n
        } else break\n    }\n    if (limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n
return buffer\}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
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defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A :
Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\"", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Byte) -> CharSequence)? =
null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1)
buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform != null)\n                buffer.append(transform(element))\n            else\n                buffer.append(element.toString())\n        } else break\n
    }\n    if (limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return

```

```

buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix:
CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Short) -> CharSequence)? =
null): A {\n  buffer.append(prefix)\n  var count = 0\n  for (element in this) {\n    if (++count > 1)
buffer.append(separator)\n    if (limit < 0 || count <= limit) {\n      if (transform != null)\nbuffer.append(transform(element))\n      else\n        buffer.append(element.toString())\n    } else break\n  }\n  if (limit >= 0 && count > limit) buffer.append(truncated)\n  buffer.append(postfix)\n  return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix:
CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Int) -> CharSequence)? = null):
A {\n  buffer.append(prefix)\n  var count = 0\n  for (element in this) {\n    if (++count > 1)
buffer.append(separator)\n    if (limit < 0 || count <= limit) {\n      if (transform != null)\nbuffer.append(transform(element))\n      else\n        buffer.append(element.toString())\n    } else break\n  }\n  if (limit >= 0 && count > limit) buffer.append(truncated)\n  buffer.append(postfix)\n  return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> LongArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix:
CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Long) -> CharSequence)? =
null): A {\n  buffer.append(prefix)\n  var count = 0\n  for (element in this) {\n    if (++count > 1)
buffer.append(separator)\n    if (limit < 0 || count <= limit) {\n      if (transform != null)\nbuffer.append(transform(element))\n      else\n        buffer.append(element.toString())\n    } else break\n  }\n  if (limit >= 0 && count > limit) buffer.append(truncated)\n  buffer.append(postfix)\n  return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix:
CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Float) -> CharSequence)? =
null): A {\n  buffer.append(prefix)\n  var count = 0\n  for (element in this) {\n    if (++count > 1)
buffer.append(separator)\n    if (limit < 0 || count <= limit) {\n      if (transform != null)\nbuffer.append(transform(element))\n      else\n        buffer.append(element.toString())\n    } else break\n  }\n  if (limit >= 0 && count > limit) buffer.append(truncated)\n  buffer.append(postfix)\n  return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> DoubleArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix:
CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Double) -> CharSequence)? =
null): A {\n  buffer.append(prefix)\n  var count = 0\n  for (element in this) {\n    if (++count > 1)
buffer.append(separator)\n    if (limit < 0 || count <= limit) {\n      if (transform != null)\nbuffer.append(transform(element))\n      else\n        buffer.append(element.toString())\n    } else break\n  }\n  if (limit >= 0 && count > limit) buffer.append(truncated)\n  buffer.append(postfix)\n  return

```

```

buffer.append(transform(element))\n      else\n          buffer.append(element.toString())\n      } else break\n
}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * ^\npublic fun <A :
Appendable> BooleanArray.joinTo(buffer: A, separator: CharSequence = '\', '\', prefix: CharSequence = \"\",
postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) ->
CharSequence)? = null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count
> 1) buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform != null)\n                buffer.append(transform(element))\n            else\n                buffer.append(element.toString())\n        } else break\n    }\n    if (limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * ^\npublic fun <A :
Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = '\', '\', prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Char) -> CharSequence)? =
null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1)
buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform != null)\n                buffer.append(transform(element))\n            else\n                buffer.append(element)\n        } else break\n    }\n    if
(limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only
the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").\n * \n *
@sample samples.collections.Collections.Transformations.joinToString\n * ^\npublic fun <T> Array<out
T>.joinToString(separator: CharSequence = '\', '\', prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit:
Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n    return
joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a
string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n
* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
[limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").\n * \n *
@sample samples.collections.Collections.Transformations.joinToString\n * ^\npublic fun ByteArray.joinToString(separator:
CharSequence = '\', '\', prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:
CharSequence = \"...\", transform: ((Byte) -> CharSequence)? = null): String {\n    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n * ^\npublic fun ShortArray.joinToString(separator:
CharSequence = '\', '\', prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:
CharSequence = \"...\", transform: ((Short) -> CharSequence)? = null): String {\n    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n * ^\npublic fun IntArray.joinToString(separator:
CharSequence = '\', '\', prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:

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CharSequence = "...\", transform: ((Int -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}

\n\n/**
 * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.
\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]
\n * elements will be
appended, followed by the [truncated] string (which defaults to "...").
\n * \n * @sample
samples.collections.Collections.Transformations.joinToString
\n *
\n * public fun LongArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated:
CharSequence = "...\", transform: ((Long -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}

\n\n/**
 * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.
\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]
\n * elements will be
appended, followed by the [truncated] string (which defaults to "...").
\n * \n * @sample
samples.collections.Collections.Transformations.joinToString
\n *
\n * public fun FloatArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated:
CharSequence = "...\", transform: ((Float -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}

\n\n/**
 * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.
\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]
\n * elements will be
appended, followed by the [truncated] string (which defaults to "...").
\n * \n * @sample
samples.collections.Collections.Transformations.joinToString
\n *
\n * public fun DoubleArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated:
CharSequence = "...\", transform: ((Double -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}

\n\n/**
 * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.
\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]
\n * elements will be
appended, followed by the [truncated] string (which defaults to "...").
\n * \n * @sample
samples.collections.Collections.Transformations.joinToString
\n *
\n * public fun
BooleanArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence =
"\n", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Boolean -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
\n * \n *
\n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
[limit]
\n * elements will be appended, followed by the [truncated] string (which defaults to "...").
\n * \n * @sample
samples.collections.Collections.Transformations.joinToString
\n *
\n * public fun CharArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated:
CharSequence = "...\", transform: ((Char -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}

\n\n/**
 * Creates an [Iterable] instance that
wraps the original array returning its elements when being iterated.
\n *
\n * public fun <T> Array<out T>.asIterable():
Iterable<T> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

\n\n/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
\n *
\n * public fun
ByteArray.asIterable(): Iterable<Byte> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator()
}
}

\n\n/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being
iterated.
\n *
\n * public fun ShortArray.asIterable(): Iterable<Short> {
    if (isEmpty()) return emptyList()
    return
Iterable { this.iterator() }
}

\n\n/**
 * Creates an [Iterable] instance that wraps the original array returning its
elements when being iterated.
\n *
\n * public fun IntArray.asIterable(): Iterable<Int> {
    if (isEmpty()) return
emptyList()
    return Iterable { this.iterator() }
}

\n\n/**
 * Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.
\n *
\n * public fun LongArray.asIterable(): Iterable<Long> {
    if
(isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

\n\n/**
 * Creates an [Iterable] instance that

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```

wraps the original array returning its elements when being iterated.\n */\npublic fun FloatArray.asIterable():
Iterable<Float> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun
DoubleArray.asIterable(): Iterable<Double> {\n if (isEmpty()) return emptyList()\n return Iterable {
this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when
being iterated.\n */\npublic fun BooleanArray.asIterable(): Iterable<Boolean> {\n if (isEmpty()) return
emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.\n */\npublic fun CharArray.asIterable(): Iterable<Char> {\n if
(isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that
wraps the original array returning its elements when being iterated.\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun <T> Array<out T>.asSequence():
Sequence<T> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ByteArray.asSequence():
Sequence<Byte> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ShortArray.asSequence():
Sequence<Short> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun IntArray.asSequence():
Sequence<Int> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun LongArray.asSequence():
Sequence<Long> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun FloatArray.asSequence():
Sequence<Float> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun DoubleArray.asSequence():
Sequence<Double> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun
BooleanArray.asSequence(): Sequence<Boolean> {\n if (isEmpty()) return emptySequence()\n return Sequence
{ this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements
when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic
fun CharArray.asSequence(): Sequence<Char> {\n if (isEmpty()) return emptySequence()\n return Sequence {
this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the array.\n
*/\n\n@kotlin.jvm.JvmName("averageOfByte")\npublic fun Array<out Byte>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*/\n\n@kotlin.jvm.JvmName("averageOfShort")\npublic fun Array<out Short>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*/\n\n@kotlin.jvm.JvmName("averageOfInt")\npublic fun Array<out Int>.average(): Double {\n var sum: Double
= 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count
== 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*/\n\n@kotlin.jvm.JvmName("averageOfLong")\npublic fun Array<out Long>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return

```



```

*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\RangesKt")\n\npackage
kotlin.ranges\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\nimport kotlin.random.*\n\n/**\n * Returns a
random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws
IllegalArgumentException if this range is empty.\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun LongRange.random(): Long {\n    return random(Random)\n}\n\n/**\n * Returns a random element from
this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.random(): Char {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n *\n@SinceKotlin("1.3")\n\npublic fun IntRange.random(random: Random): Int {\n    try {\n        return
random.nextInt(this)\n    } catch(e: IllegalArgumentException) {\n        throw
NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range using the
specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n *\n@SinceKotlin("1.3")\n\npublic fun LongRange.random(random: Random): Long {\n    try {\n        return
random.nextLong(this)\n    } catch(e: IllegalArgumentException) {\n        throw
NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range using the
specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n *\n@SinceKotlin("1.3")\n\npublic fun CharRange.random(random: Random): Char {\n    try {\n        return
random.nextInt(first.code, last.code + 1).toChar()\n    } catch(e: IllegalArgumentException) {\n        throw
NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range, or `null` if this
range is empty.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun IntRange.randomOrNull(): Int? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this range, or `null` if this range is empty.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun LongRange.randomOrNull(): Long? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this range, or `null` if this range is empty.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun CharRange.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this range using the specified source of randomness, or `null` if this range is empty.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic fun
IntRange.randomOrNull(random: Random): Int? {\n    if (isEmpty())\n        return null\n    return
random.nextInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness, or `null` if this range is empty.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic fun
LongRange.randomOrNull(random: Random): Long? {\n    if (isEmpty())\n        return null\n    return
random.nextLong(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness, or `null` if this range is empty.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic fun
CharRange.randomOrNull(random: Random): Char? {\n    if (isEmpty())\n        return null\n    return
random.nextInt(first.code, last.code + 1).toChar()\n}\n\n/**\n * Returns `true` if this range contains the specified
[element].\n * \n * Always returns `false` if the [element] is `null`.\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n\npublic inline operator fun IntRange.contains(element:
Int?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains
the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n

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*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(element: Long?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun CharRange.contains(element: Char?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value: Byte): Boolean {\n    return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun ClosedRange<Long>.contains(value: Byte): Boolean {\n    return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value: Byte): Boolean {\n    return contains(value.toShort())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun ClosedRange<Double>.contains(value: Byte): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value: Byte): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value: Double): Boolean {\n    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun ClosedRange<Long>.contains(value: Double): Boolean {\n    return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value: Double): Boolean {\n    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value: Double): Boolean {\n    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value: Double): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value: Float): Boolean {\n    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */

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*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun
ClosedRange<Long>.contains(value: Float): Boolean {\n return value.toLongExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun
ClosedRange<Byte>.contains(value: Float): Boolean {\n return value.toByteExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun
ClosedRange<Short>.contains(value: Float): Boolean {\n return value.toShortExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun ClosedRange<Double>.contains(value:
Float): Boolean {\n return contains(value.toDouble())\n}\n\n**\n * Checks if the specified [value] belongs to this
range.\n *\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun
ClosedRange<Long>.contains(value: Int): Boolean {\n return contains(value.toLong())\n}\n\n**\n * Checks if the
specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun
ClosedRange<Byte>.contains(value: Int): Boolean {\n return value.toByteExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value: Int):
Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n**\n * Checks if
the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be
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ClosedRange<Double>.contains(value: Int): Boolean {\n return contains(value.toDouble())\n}\n\n**\n * Checks
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floating point arguments has ambiguous semantics and is going to be
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"1.5")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value:
Int): Boolean {\n return contains(value.toFloat())\n}\n\n**\n * Checks if the specified [value] belongs to this
range.\n *\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value:
Long): Boolean {\n return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n**\n *
Checks if the specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("byteRangeContains")\npublic
operator fun ClosedRange<Byte>.contains(value: Long): Boolean {\n return value.toByteExactOrNull().let { if (it
!= null) contains(it) else false }\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value:
Long): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n**\n *
Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
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"1.5")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun
ClosedRange<Double>.contains(value: Long): Boolean {\n return contains(value.toDouble())\n}\n\n**\n *
Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer
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removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Long): Boolean {\n return contains(value.toFloat())\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Short): Boolean {\n return contains(value.toInt())\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Short): Boolean {\n return contains(value.toLong())\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Short): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Short): Boolean {\n return contains(value.toDouble())\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Short): Boolean {\n return contains(value.toFloat())\n}\n\n**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Byte): IntProgression {\n return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Byte): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Byte): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Byte): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Char.downTo(to: Char): CharProgression {\n return CharProgression.fromClosedRange(this, to, -1)\n}\n\n**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Int): IntProgression {\n return IntProgression.fromClosedRange(this, to, -1)\n}\n\n**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Int): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Int): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Int):

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IntProgression {\n    return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression
from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal
to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix
fun Int.downTo(to: Long): LongProgression {\n    return LongProgression.fromClosedRange(this.toLong(), to, -
1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n *
The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the
returned progression is empty.\n */\npublic infix fun Long.downTo(to: Long): LongProgression {\n    return
LongProgression.fromClosedRange(this, to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the
specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to]
value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Long):
LongProgression {\n    return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a
progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less
than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*/\npublic infix fun Short.downTo(to: Long): LongProgression {\n    return
LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value
down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n
*/\npublic infix fun Int.downTo(to:
Short): IntProgression {\n    return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a
progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less
than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*/\npublic infix fun Long.downTo(to: Short): LongProgression {\n    return LongProgression.fromClosedRange(this,
to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -
1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this`
value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Short): IntProgression {\n    return
IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value
down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n
*/\npublic infix fun
Short.downTo(to: Short): IntProgression {\n    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -
1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n
*/\npublic fun IntProgression.reversed(): IntProgression {\n    return IntProgression.fromClosedRange(last, first, -
step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same
step.\n */\npublic fun LongProgression.reversed(): LongProgression {\n    return
LongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same
range in the opposite direction with the same step.\n */\npublic fun CharProgression.reversed(): CharProgression {\n
return CharProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the
same range with the given step.\n */\npublic infix fun IntProgression.step(step: Int): IntProgression {\n
checkStepIsPositive(step > 0, step)\n    return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -
step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun
LongProgression.step(step: Long): LongProgression {\n    checkStepIsPositive(step > 0, step)\n    return
LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression
that goes over the same range with the given step.\n */\npublic infix fun CharProgression.step(step: Int):
CharProgression {\n    checkStepIsPositive(step > 0, step)\n    return CharProgression.fromClosedRange(first, last, if
(this.step > 0) step else -step)\n}\n\ninternal fun Int.toByteExactOrNull(): Byte? {\n    return if (this in
Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByte() else null\n}\n\ninternal fun
Long.toByteExactOrNull(): Byte? {\n    return if (this in
Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByte() else null\n}\n\ninternal fun
Short.toByteExactOrNull(): Byte? {\n    return if (this in
Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null\n}\n\ninternal fun

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Double.toByteExactOrNull(): Byte? {\n return if (this in
 Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toInt().toByte() else null\n}\n\ninternal fun
 Float.toByteExactOrNull(): Byte? {\n return if (this in
 Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toInt().toByte() else null\n}\n\ninternal fun
 Long.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong())
 this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n return if (this in
 Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun
 Float.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat())
 this.toInt() else null\n}\n\ninternal fun Double.toLongExactOrNull(): Long? {\n return if (this in
 Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null\n}\n\ninternal fun
 Float.toLongExactOrNull(): Long? {\n return if (this in
 Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun
 Int.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt())
 this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n return if (this in
 Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun
 Double.toShortExactOrNull(): Short? {\n return if (this in
 Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toInt().toShort() else null\n}\n\ninternal fun
 Float.toShortExactOrNull(): Short? {\n return if (this in
 Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat()) this.toInt().toShort() else null\n}\n\n**\n * Returns
 a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to
 `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Byte): IntRange {\n return this ..
 (to.toInt() - 1).toInt()\n}\n\n**\n * Returns a range from this value up to but excluding the specified [to] value.\n *
 \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun
 Long.until(to: Byte): LongRange {\n return this .. (to.toLong() - 1).toLong()\n}\n\n**\n * Returns a range from
 this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value,
 then the returned range is empty.\n */\npublic infix fun Byte.until(to: Byte): IntRange {\n return this.toInt() ..
 (to.toInt() - 1).toInt()\n}\n\n**\n * Returns a range from this value up to but excluding the specified [to] value.\n *
 \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun
 Short.until(to: Byte): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n**\n * Returns a range from
 this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value,
 then the returned range is empty.\n */\npublic infix fun Char.until(to: Char): CharRange {\n if (to <= '\u0000')
 return CharRange.EMPTY\n return this .. (to - 1).toChar()\n}\n\n**\n * Returns a range from this value up to but
 excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned
 range is empty.\n */\npublic infix fun Int.until(to: Int): IntRange {\n if (to <= Int.MIN_VALUE) return
 IntRange.EMPTY\n return this .. (to - 1).toInt()\n}\n\n**\n * Returns a range from this value up to but excluding
 the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is
 empty.\n */\npublic infix fun Long.until(to: Int): LongRange {\n return this .. (to.toLong() -
 1).toLong()\n}\n\n**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
 [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to:
 Int): IntRange {\n if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n return this.toInt() .. (to -
 1).toInt()\n}\n\n**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
 [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to:
 Int): IntRange {\n if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n return this.toInt() .. (to -
 1).toInt()\n}\n\n**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
 [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to:
 Long): LongRange {\n if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n return this.toLong() .. (to -
 1).toLong()\n}\n\n**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
 [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to:

Long): LongRange { \n if (to <= Long.MIN_VALUE) return LongRange.EMPTY \n return this .. (to - 1).toLong()\n}\n\n/** \n * Returns a range from this value up to but excluding the specified [to] value. \n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty. \n */ \n public infix fun Byte.until(to: Long): LongRange { \n if (to <= Long.MIN_VALUE) return LongRange.EMPTY \n return this.toLong() .. (to - 1).toLong()\n}\n\n/** \n * Returns a range from this value up to but excluding the specified [to] value. \n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty. \n */ \n public infix fun Short.until(to: Long): LongRange { \n if (to <= Long.MIN_VALUE) return LongRange.EMPTY \n return this.toLong() .. (to - 1).toLong()\n}\n\n/** \n * Returns a range from this value up to but excluding the specified [to] value. \n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty. \n */ \n public infix fun Int.until(to: Short): IntRange { \n return this .. (to.toInt() - 1).toInt()\n}\n\n/** \n * Returns a range from this value up to but excluding the specified [to] value. \n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty. \n */ \n public infix fun Long.until(to: Short): LongRange { \n return this .. (to.toLong() - 1).toLong()\n}\n\n/** \n * Returns a range from this value up to but excluding the specified [to] value. \n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty. \n */ \n public infix fun Byte.until(to: Short): IntRange { \n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/** \n * Returns a range from this value up to but excluding the specified [to] value. \n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty. \n */ \n public infix fun Short.until(to: Short): IntRange { \n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast \n */ \n public fun <T : Comparable<T>> T.coerceAtLeast(minimumValue: T): T { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast \n */ \n public fun Byte.coerceAtLeast(minimumValue: Byte): Byte { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast \n */ \n public fun Short.coerceAtLeast(minimumValue: Short): Short { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast \n */ \n public fun Int.coerceAtLeast(minimumValue: Int): Int { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast \n */ \n public fun Long.coerceAtLeast(minimumValue: Long): Long { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast \n */ \n public fun Float.coerceAtLeast(minimumValue: Float): Float { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast \n */ \n public fun Double.coerceAtLeast(minimumValue: Double): Double { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not greater than the specified [maximumValue]. \n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostComparable \n */ \n public fun <T : Comparable<T>> T.coerceAtMost(maximumValue: T): T { \n return if (this > maximumValue) maximumValue else this\n}\n\n/** \n * Ensures that this value is not greater than the specified [maximumValue]. \n * \n * @return this value if it's less


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than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Byte.coerceAtMost(maximumValue: Byte):
Byte {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Short.coerceAtMost(maximumValue: Short):
Short {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Int.coerceAtMost(maximumValue: Int): Int
{\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater
than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or
the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n
*/\npublic fun Long.coerceAtMost(maximumValue: Long): Long {\n    return if (this > maximumValue)
maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n
*\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n
*\n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun
Float.coerceAtMost(maximumValue: Float): Float {\n    return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Double.coerceAtMost(maximumValue:
Double): Double {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this
value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range,
or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInComparable\n */\npublic fun
<T : Comparable<T>> T.coerceIn(minimumValue: T?, maximumValue: T?): T {\n    if (minimumValue != null
&& maximumValue != null) {\n        if (minimumValue > maximumValue) throw
IllegalArgumentOutOfRangeException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n        if (this < minimumValue) return minimumValue\n        if (this >
maximumValue) return maximumValue\n    }\n    else {\n        if (minimumValue != null && this <
minimumValue) return minimumValue\n        if (maximumValue != null && this > maximumValue) return
maximumValue\n    }\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Byte.coerceIn(minimumValue: Byte,
maximumValue: Byte): Byte {\n    if (minimumValue > maximumValue) throw
IllegalArgumentOutOfRangeException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Short.coerceIn(minimumValue: Short,
maximumValue: Short): Short {\n    if (minimumValue > maximumValue) throw
IllegalArgumentOutOfRangeException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample

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samples.comparisons.ComparableOps.coerceIn\n *^\npublic fun Int.coerceIn(minimumValue: Int, maximumValue:
Int): Int {\n  if (minimumValue > maximumValue) throw IllegalArgumentException("\n\nCannot coerce value to an
empty range: maximum $maximumValue is less than minimum $minimumValue.\n")\n  if (this < minimumValue)
return minimumValue\n  if (this > maximumValue) return maximumValue\n  return this\n}\n\n/**\n * Ensures
that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in
the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater
than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n *^\npublic fun
Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {\n  if (minimumValue > maximumValue)
throw IllegalArgumentException("\n\nCannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\n")\n  if (this < minimumValue) return minimumValue\n  if (this > maximumValue)
return maximumValue\n  return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *^\npublic fun Float.coerceIn(minimumValue: Float,
maximumValue: Float): Float {\n  if (minimumValue > maximumValue) throw
IllegalArgumentException("\n\nCannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\n")\n  if (this < minimumValue) return minimumValue\n  if (this > maximumValue)
return maximumValue\n  return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *^\npublic fun Double.coerceIn(minimumValue: Double,
maximumValue: Double): Double {\n  if (minimumValue > maximumValue) throw
IllegalArgumentException("\n\nCannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\n")\n  if (this < minimumValue) return minimumValue\n  if (this > maximumValue)
return maximumValue\n  return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`. \n * \n * @sample
samples.comparisons.ComparableOps.coerceInFloatingPointRange\n *^\n@SinceKotlin("1.1")\n\npublic fun <T :
Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T {\n  if (range.isEmpty()) throw
IllegalArgumentException("\n\nCannot coerce value to an empty range: $range.\n")\n  return when {\n    // this <
start equiv to this <= start && !(this >= start)\n    range.lessThanOrEqualTo(this, range.start) &&
!range.lessThanOrEqualTo(range.start, this) -> range.start\n    // this > end equiv to this >= end && !(this <= end)\n
range.lessThanOrEqualTo(range.endInclusive, this) && !range.lessThanOrEqualTo(this, range.endInclusive) ->
range.endInclusive\n    else -> this\n  }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`. \n * \n * @sample
samples.comparisons.ComparableOps.coerceInComparable\n *^\npublic fun <T : Comparable<T>>
T.coerceIn(range: ClosedRange<T>): T {\n  if (range is ClosedFloatingPointRange) {\n    return
this.coerceIn<T>(range)\n  }\n  if (range.isEmpty()) throw IllegalArgumentException("\n\nCannot coerce value to an
empty range: $range.\n")\n  return when {\n    this < range.start -> range.start\n    this > range.endInclusive ->
range.endInclusive\n    else -> this\n  }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`. \n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n
*^\npublic fun Int.coerceIn(range: ClosedRange<Int>): Int {\n  if (range is ClosedFloatingPointRange) {\n
return this.coerceIn<Int>(range)\n  }\n  if (range.isEmpty()) throw IllegalArgumentException("\n\nCannot coerce
value to an empty range: $range.\n")\n  return when {\n    this < range.start -> range.start\n    this >
range.endInclusive -> range.endInclusive\n    else -> this\n  }\n}\n\n/**\n * Ensures that this value lies in the
specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than

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`range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *^\npublic fun Long.coerceIn(range: ClosedRange<Long>): Long
{\n  if (range is ClosedFloatingPointRange) {\n    return this.coerceIn<Long>(range)\n  }\n  if
(range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")\n  return
when {\n    this < range.start -> range.start\n    this > range.endInclusive -> range.endInclusive\n    else ->
this\n  }\n}\n\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npu
blic value class UByte @PublishedApi internal constructor(@PublishedApi internal val data: Byte) :
Comparable<UByte> {\n\n  companion object {\n    /**\n     * A constant holding the minimum value an
instance of UByte can have.\n     */\n    public const val MIN_VALUE: UByte = UByte(0)\n\n    /**\n     *
A constant holding the maximum value an instance of UByte can have.\n     */\n    public const val
MAX_VALUE: UByte = UByte(-1)\n\n    /**\n     * The number of bytes used to represent an instance of
UByte in a binary form.\n     */\n    public const val SIZE_BYTES: Int = 1\n\n    /**\n     * The number of
bits used to represent an instance of UByte in a binary form.\n     */\n    public const val SIZE_BITS: Int = 8\n
}\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to
the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than
other.\n     */\n    @kotlin.internal.InlineOnly\n    @Suppress("OVERRIDE_BY_INLINE")\n    public override
inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\n\n    /**\n     * Compares
this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a
negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UShort): Int =
this.toInt().compareTo(other.toInt())\n\n    /**\n     * Compares this value with the specified value for order.\n     *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a
positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n    /**\n     * Compares this value with the
specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n    /** Adds the
other value to this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toUInt())\n\n    /** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n\n    /** Adds the other value
to this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UInt): UInt =
this.toUInt().plus(other)\n\n    /** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n    public
inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n    /** Subtracts the other value from
this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UByte): UInt =
this.toUInt().minus(other.toUInt())\n\n    /** Subtracts the other value from this value. */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UShort): UInt =
this.toUInt().minus(other.toUInt())\n\n    /** Subtracts the other value from this value. */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n
\n    /** Subtracts the other value from this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
minus(other: ULong): ULong = this.toULong().minus(other)\n\n    /** Multiplies this value by the other value. */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UByte): UInt =
this.toUInt().times(other.toUInt())\n\n    /** Multiplies this value by the other value. */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())\n\n    /** Multiplies this value by the other value. */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n

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/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)
/** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */
@kotlin.internal.InlineOnly
public inline operator
fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())
/** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */
@kotlin.internal.InlineOnly
public inline operator
fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())
/** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */
@kotlin.internal.InlineOnly
public inline operator
fun div(other: UInt): UInt = this.toUInt().div(other)
/** Divides this value by the other value, truncating the
result to an integer that is closer to zero. */
@kotlin.internal.InlineOnly
public inline operator fun div(other:
ULong): ULong = this.toULong().div(other)
/**
 * Calculates the remainder of truncating division of this
value by the other value.
 *
 * The result is always less than the divisor.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt =
this.toUInt().rem(other.toUInt())
/**
 * Calculates the remainder of truncating division of this value by the
other value.
 *
 * The result is always less than the divisor.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())
/**
 * Calculates the
remainder of truncating division of this value by the other value.
 *
 * The result is always less than the
divisor.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt =
this.toUInt().rem(other)
/**
 * Calculates the remainder of truncating division of this value by the other
value.
 *
 * The result is always less than the divisor.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)
/**
 * Divides this value by
the other value, flooring the result to an integer that is closer to negative infinity.
 *
 * For unsigned types,
the results of flooring division and truncating division are the same.
 */
@kotlin.internal.InlineOnly
public inline fun floorDiv(other: UByte): UInt = this.toUInt().floorDiv(other.toUInt())
/**
 * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.
 *
 * For unsigned
types, the results of flooring division and truncating division are the same.
 */
@kotlin.internal.InlineOnly
public inline fun floorDiv(other: UShort): UInt = this.toUInt().floorDiv(other.toUInt())
/**
 * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.
 *
 * For unsigned
types, the results of flooring division and truncating division are the same.
 */
@kotlin.internal.InlineOnly
public inline fun floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)
/**
 * Divides this value by the
other value, flooring the result to an integer that is closer to negative infinity.
 *
 * For unsigned types, the
results of flooring division and truncating division are the same.
 */
@kotlin.internal.InlineOnly
public inline fun floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)
/**
 * Calculates the
remainder of flooring division of this value by the other value.
 *
 * The result is always less than the
divisor.
 *
 * For unsigned types, the remainders of flooring division and truncating division are the same.
 */
@kotlin.internal.InlineOnly
public inline fun mod(other: UByte): UByte =
this.toUInt().mod(other.toUInt()).toUByte()
/**
 * Calculates the remainder of flooring division of this value
by the other value.
 *
 * The result is always less than the divisor.
 *
 * For unsigned types, the
remainders of flooring division and truncating division are the same.
 */
@kotlin.internal.InlineOnly
public inline fun mod(other: UShort): UShort = this.toUInt().mod(other.toUInt()).toUShort()
/**
 *
Calculates the remainder of flooring division of this value by the other value.
 *
 * The result is always less
than the divisor.
 *
 * For unsigned types, the remainders of flooring division and truncating division are the
same.
 */
@kotlin.internal.InlineOnly
public inline fun mod(other: UInt): UInt =
this.toUInt().mod(other)
/**
 * Calculates the remainder of flooring division of this value by the other
value.
 *
 * The result is always less than the divisor.
 *
 * For unsigned types, the remainders of
flooring division and truncating division are the same.
 */
@kotlin.internal.InlineOnly
public inline fun
mod(other: ULong): ULong = this.toULong().mod(other)
/**
 * Returns this value incremented by one.
 */
@sample samples.misc.Builtins.inc
@kotlin.internal.InlineOnly
public inline operator fun
inc(): UByte = UByte(data.inc())
/**
 * Returns this value decremented by one.
 */
@sample

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samples.misc.Builtins.dec\n    *^\n    @kotlin.internal.InlineOnly\n    public inline operator fun dec(): UByte =
UByte(data.dec())\n    /** Creates a range from this value to the specified [other] value. *^\n
@kotlin.internal.InlineOnly\n    public inline operator fun rangeTo(other: UByte): UIntRange =
UIntRange(this.toUInt(), other.toUInt())\n    /** Performs a bitwise AND operation between the two values. *^\n
@kotlin.internal.InlineOnly\n    public inline infix fun and(other: UByte): UByte = UByte(this.data and other.data)\n
/** Performs a bitwise OR operation between the two values. *^\n    @kotlin.internal.InlineOnly\n    public inline
infix fun or(other: UByte): UByte = UByte(this.data or other.data)\n    /** Performs a bitwise XOR operation
between the two values. *^\n    @kotlin.internal.InlineOnly\n    public inline infix fun xor(other: UByte): UByte =
UByte(this.data xor other.data)\n    /** Inverts the bits in this value. *^\n    @kotlin.internal.InlineOnly\n    public
inline fun inv(): UByte = UByte(data.inv())\n    /**\n    * Converts this [UByte] value to [Byte].\n    *^\n    * If
this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n    * the same
numerical value as this `UByte`. Otherwise the result is negative.\n    *^\n    * The resulting `Byte` value has the
same binary representation as this `UByte` value.\n    *^\n    @kotlin.internal.InlineOnly\n    public inline fun
toByte(): Byte = data\n    /**\n    * Converts this [UByte] value to [Short].\n    *^\n    * The resulting `Short` value
represents the same numerical value as this `UByte`. \n    *^\n    * The least significant 8 bits of the resulting `Short`
value are the same as the bits of this `UByte` value,\n    *^\n    * whereas the most significant 8 bits are filled with zeros.\n
*^\n    @kotlin.internal.InlineOnly\n    public inline fun toShort(): Short = data.toShort() and 0xFF\n    /**\n    *
Converts this [UByte] value to [Int].\n    *^\n    * The resulting `Int` value represents the same numerical value as
this `UByte`. \n    *^\n    * The least significant 8 bits of the resulting `Int` value are the same as the bits of this
`UByte` value,\n    *^\n    * whereas the most significant 24 bits are filled with zeros.\n    *^\n
@kotlin.internal.InlineOnly\n    public inline fun toInt(): Int = data.toInt() and 0xFF\n    /**\n    * Converts this
[UByte] value to [Long].\n    *^\n    * The resulting `Long` value represents the same numerical value as this
`UByte`. \n    *^\n    * The least significant 8 bits of the resulting `Long` value are the same as the bits of this
`UByte` value,\n    *^\n    * whereas the most significant 56 bits are filled with zeros.\n    *^\n
@kotlin.internal.InlineOnly\n    public inline fun toLong(): Long = data.toLong() and 0xFF\n    /** Returns this
value. *^\n    @kotlin.internal.InlineOnly\n    public inline fun toUByte(): UByte = this\n    /**\n    * Converts this
[UByte] value to [UShort].\n    *^\n    * The resulting `UShort` value represents the same numerical value as this
`UByte`. \n    *^\n    * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this
`UByte` value,\n    *^\n    * whereas the most significant 8 bits are filled with zeros.\n    *^\n
@kotlin.internal.InlineOnly\n    public inline fun toUShort(): UShort = UShort(data.toShort() and 0xFF)\n    /**\n
* Converts this [UByte] value to [UInt].\n    *^\n    * The resulting `UInt` value represents the same numerical value
as this `UByte`. \n    *^\n    * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this
`UByte` value,\n    *^\n    * whereas the most significant 24 bits are filled with zeros.\n    *^\n
@kotlin.internal.InlineOnly\n    public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF)\n    /**\n    *
Converts this [UByte] value to [ULong].\n    *^\n    * The resulting `ULong` value represents the same numerical
value as this `UByte`. \n    *^\n    * The least significant 8 bits of the resulting `ULong` value are the same as the bits
of this `UByte` value,\n    *^\n    * whereas the most significant 56 bits are filled with zeros.\n    *^\n
@kotlin.internal.InlineOnly\n    public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF)\n    /**\n
* Converts this [UByte] value to [Float].\n    *^\n    * The resulting `Float` value represents the same numerical
value as this `UByte`. \n    *^\n    @kotlin.internal.InlineOnly\n    public inline fun toFloat(): Float =
this.toInt().toFloat()\n    /**\n    * Converts this [UByte] value to [Double].\n    *^\n    * The resulting `Double`
value represents the same numerical value as this `UByte`. \n    *^\n    @kotlin.internal.InlineOnly\n    public inline
fun toDouble(): Double = this.toInt().toDouble()\n    public override fun toString(): String =
toInt().toString()\n}\n\n/**\n* Converts this [Byte] value to [UByte].\n*^\n* If this value is positive, the resulting
`UByte` value represents the same numerical value as this `Byte`. \n*^\n* The resulting `UByte` value has the same
binary representation as this `Byte` value.\n
*^\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Byte.toUByte(): UByte = UByte(this)\n/**\n* Converts this [Short] value to [UByte].\n*^\n* If

```

this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents the same numerical value as this `Short`. The resulting `UByte` value is represented by the least significant 8 bits of this `Short` value.

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Int] value to [UByte].\n *\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents the same numerical value as this `Int`. The resulting `UByte` value is represented by the least significant 8 bits of this `Int` value.
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Int.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Long] value to [UByte].\n *\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents the same numerical value as this `Long`. The resulting `UByte` value is represented by the least significant 8 bits of this `Long` value.
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Long.toUByte(): UByte = UByte(this.toByte())\n"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport
```

```
kotlin.jvm.*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npublic value class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) :
```

```
Comparable<UInt> {\n\n    companion object {\n\n        /**\n         * A constant holding the minimum value an instance of UInt can have.\n         */\n        public const val MIN_VALUE: UInt = UInt(0)\n\n        /**\n         * A constant holding the maximum value an instance of UInt can have.\n         */\n        public const val MAX_VALUE: UInt = UInt(-1)\n\n        /**\n         * The number of bytes used to represent an instance of UInt in a binary form.\n         */\n        public const val SIZE_BYTES: Int = 4\n\n        /**\n         * The number of bits used to represent an instance of UInt in a binary form.\n         */\n        public const val SIZE_BITS: Int = 32\n    }\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
```

```
@kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toUInt())\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
```

```
@kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
```

```
@kotlin.internal.InlineOnly\n    public override inline operator fun compareTo(other: UInt): Int = uintCompare(this.data, other.data)\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
```

```
@kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())\n\n    /**\n     * Adds the other value to this value.\n
```

```
@kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())\n\n    /**\n     * Adds the other value to this value.\n
```

```
@kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UInt): UInt = UInt(this.data.plus(other.data))\n\n    /**\n     * Adds the other value to this value.\n
```

```
@kotlin.internal.InlineOnly\n    public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n    /**\n     * Subtracts the other value from this value.\n
```

```
@kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())\n\n    /**\n     * Subtracts the other value from this value.\n
```

```

minus(other: UShort): UInt = this.minus(other.toUInt())\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt =
UInt(this.data.minus(other.data))\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other)\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())\n /** Multiplies this value by the
other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt =
this.times(other.toUInt())\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))\n /** Multiplies this value
by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong =
this.toULong().times(other)\n\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): UInt =
this.div(other.toUInt())\n /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): UInt =
this.div(other.toUInt())\n /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt = uintDivide(this,
other)\n /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())\n /**\n * Calculates the remainder of
truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())\n
/**\n * Calculates the remainder of truncating division of this value by the other value.\n * \n * The result is
always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt):
UInt = uintRemainder(this, other)\n /**\n * Calculates the remainder of truncating division of this value by the
other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /**\n * Divides this value by
the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types,
the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UByte): UInt = this.floorDiv(other.toUInt())\n /**\n * Divides this value by the
other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the
results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public
inline fun floorDiv(other: UShort): UInt = this.floorDiv(other.toUInt())\n /**\n * Divides this value by the other
value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results
of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline
fun floorDiv(other: UInt): UInt = div(other)\n /**\n * Divides this value by the other value, flooring the result to
an integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and
truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other:
ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the remainder of flooring division of
this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned
types, the remainders of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte = this.mod(other.toUInt()).toUByte()\n
/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is
always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating
division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort =
this.mod(other.toUInt()).toUShort()\n /**\n * Calculates the remainder of flooring division of this value by the
other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders

```

```

of flooring division and truncating division are the same.\n
 *^n @kotlin.internal.InlineOnly\n public inline
fun mod(other: UInt): UInt = rem(other)\n /**\n * Calculates the remainder of flooring division of this value by
the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the
remainders of flooring division and truncating division are the same.\n
 *^n @kotlin.internal.InlineOnly\n public inline fun mod(other: ULong): ULong = this.toULong().mod(other)\n\n /**\n * Returns this value
incremented by one.\n * \n * @sample samples.misc.Builtins.inc\n
 *^n @kotlin.internal.InlineOnly\n public inline operator fun inc(): UInt = UInt(data.inc())\n\n /**\n * Returns this value decremented by one.\n
*\n * @sample samples.misc.Builtins.dec\n
 *^n @kotlin.internal.InlineOnly\n public inline operator fun
dec(): UInt = UInt(data.dec())\n\n /** Creates a range from this value to the specified [other] value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this,
other)\n\n /**\n * Shifts this value left by the [bitCount] number of bits.\n * \n * Note that only the five
lowest-order bits of the [bitCount] are used as the shift distance.\n * The shift distance actually used is therefore
always in the range `0..31`.\n
 *^n @kotlin.internal.InlineOnly\n public inline infix fun shl(bitCount: Int): UInt
= UInt(data shl bitCount)\n\n /**\n * Shifts this value right by the [bitCount] number of bits, filling the leftmost
bits with zeros.\n * \n * Note that only the five lowest-order bits of the [bitCount] are used as the shift
distance.\n * The shift distance actually used is therefore always in the range `0..31`.\n
 *^n
@kotlin.internal.InlineOnly\n public inline infix fun shr(bitCount: Int): UInt = UInt(data ushr bitCount)\n\n /**
Performs a bitwise AND operation between the two values. *\n
@kotlin.internal.InlineOnly\n public inline infix
fun and(other: UInt): UInt = UInt(this.data and other.data)\n\n /** Performs a bitwise OR operation between the two
values. *\n
@kotlin.internal.InlineOnly\n public inline infix fun or(other: UInt): UInt = UInt(this.data or
other.data)\n\n /** Performs a bitwise XOR operation between the two values. *\n
@kotlin.internal.InlineOnly\n public inline infix fun xor(other: UInt): UInt = UInt(this.data xor other.data)\n\n /**
Inverts the bits in this value.
*\n
@kotlin.internal.InlineOnly\n public inline fun inv(): UInt = UInt(data.inv())\n\n /**\n * Converts this
[UInt] value to [Byte].\n * \n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte`
value represents\n * the same numerical value as this `UInt`.\n * \n * The resulting `Byte` value is
represented by the least significant 8 bits of this `UInt` value.\n * Note that the resulting `Byte` value may be
negative.\n
 *^n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n\n /**\n *
Converts this [UInt] value to [Short].\n * \n * If this value is less than or equals to [Short.MAX_VALUE], the
resulting `Short` value represents\n * the same numerical value as this `UInt`.\n * \n * The resulting `Short`
value is represented by the least significant 16 bits of this `UInt` value.\n * Note that the resulting `Short` value
may be negative.\n
 *^n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data.toShort()\n\n /**\n *
Converts this [UInt] value to [Int].\n * \n * If this value is less than or equals to [Int.MAX_VALUE], the
resulting `Int` value represents\n * the same numerical value as this `UInt`. Otherwise the result is negative.\n
*\n * The resulting `Int` value has the same binary representation as this `UInt` value.\n
 *^n
@kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data\n\n /**\n * Converts this [UInt] value to
[Long].\n * \n * The resulting `Long` value represents the same numerical value as this `UInt`.\n * \n * The
least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value,\n * whereas the
most significant 32 bits are filled with zeros.\n
 *^n @kotlin.internal.InlineOnly\n public inline fun toLong():
Long = data.toLong() and 0xFFFF_FFFF\n\n /**\n * Converts this [UInt] value to [UByte].\n * \n * If this
value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same
numerical value as this `UInt`.\n * \n * The resulting `UByte` value is represented by the least significant 8 bits
of this `UInt` value.\n
 *^n @kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte =
data.toUByte()\n\n /**\n * Converts this [UInt] value to [UShort].\n * \n * If this value is less than or equals
to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same numerical value as this `UInt`.\n
*\n * The resulting `UShort` value is represented by the least significant 16 bits of this `UInt` value.\n
 *^n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = data.toUShort()\n\n /** Returns this value.
*\n
@kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = this\n\n /**\n * Converts this [UInt] value
to [ULong].\n * \n * The resulting `ULong` value represents the same numerical value as this `UInt`.\n
 *^n

```



```

* The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value,
* whereas the most significant 32 bits are filled with zeros.
* @kotlin.internal.InlineOnly
public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)
/**
 * Converts this [UInt] value to [Float].
 * The resulting value is the closest `Float` to this `UInt` value.
 * In case when this `UInt` value is exactly between two `Float`s,
 * the one with zero at least significant bit of mantissa is selected.
* @kotlin.internal.InlineOnly
public inline fun toFloat(): Float = this.toDouble().toFloat()
/**
 * Converts this [UInt] value to [Double].
 * The resulting `Double` value represents the same numerical value as this
`UInt`.
* @kotlin.internal.InlineOnly
public inline fun toDouble(): Double = UIntToDouble(data)
public override fun toString(): String = toLong().toString()
}
}
/**
 * Converts this [Byte] value to [UInt].
 * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Byte`.
 * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `Byte` value,
 * whereas the most significant 24 bits are filled with the sign bit of this value.
* @kotlin.internal.InlineOnly
public inline fun Byte.toUInt(): UInt = UInt(this.toInt())
/**
 * Converts this [Short] value to [UInt].
 * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Short`.
 * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value,
 * whereas the most significant 16 bits are filled with the sign bit of this value.
* @kotlin.internal.InlineOnly
public inline fun Short.toUInt(): UInt = UInt(this.toInt())
/**
 * Converts this [Int] value to [UInt].
 * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Int`.
 * The resulting `UInt` value has the same binary representation as this `Int` value.
* @kotlin.internal.InlineOnly
public inline fun Int.toUInt(): UInt = UInt(this)
/**
 * Converts this [Long] value to [UInt].
 * If this value is positive and less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents
 * the same numerical value as this `Long`.
 * The resulting `UInt` value is represented by the least significant 32 bits of this `Long` value.
* @kotlin.internal.InlineOnly
public inline fun Long.toUInt(): UInt = UInt(this.toInt())
/**
 * Converts this [Float] value to [UInt].
 * The fractional part, if any, is rounded down towards zero.
 * Returns zero if this `Float` value is negative or `NaN`,
 [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.
* @kotlin.internal.InlineOnly
public inline fun Float.toUInt(): UInt = doubleToUInt(this.toDouble())
/**
 * Converts this [Double] value to [UInt].
 * The fractional part, if any, is rounded down towards zero.
 * Returns zero if this `Double` value is negative or `NaN`,
 [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.
* @kotlin.internal.InlineOnly
public inline fun Double.toUInt(): UInt = doubleToUInt(this)
}
}
* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
* @kotlin.internal.Auto-generated file. DO NOT EDIT!
package kotlin
import kotlin.experimental.*
import kotlin.jvm.*
* @kotlin.internal.InlineOnly
public value class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Short) :
Comparable<UInt> {
    companion object {
        /**
         * A constant holding the minimum value an instance of UInt can have.
         * @kotlin.internal.InlineOnly
         public const val MIN_VALUE: UInt = UInt(0)
        /**
         * A constant holding the maximum value an instance of UInt can have.
         * @kotlin.internal.InlineOnly
         public const val MAX_VALUE: UInt = UInt(-1)
        /**
         * The number of bytes used to represent an instance of UInt in a binary form.
         * @kotlin.internal.InlineOnly
         public const val SIZE_BYTES: Int = 2
        /**
         * The number of bits used to represent an instance of UInt in a binary form.
         * @kotlin.internal.InlineOnly
         public const val SIZE_BITS: Int = 16
    }
}
/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is

```

```

equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater
than other.\n *^\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UByte): Int =
this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n *^\n @kotlin.internal.InlineOnly\n
@Override\n public override inline operator fun compareTo(other: UShort): Int =
this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n *^\n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n *^\n @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n /** Adds the
other value to this value. *\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toUInt())\n\n /** Adds the other value to this value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n\n /** Adds the other value
to this value. *\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt =
this.toUInt().plus(other)\n\n /** Adds the other value to this value. *\n @kotlin.internal.InlineOnly\n public
inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n /** Subtracts the other value from
this value. *\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): UInt =
this.toUInt().minus(other.toUInt())\n\n /** Subtracts the other value from this value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort): UInt =
this.toUInt().minus(other.toUInt())\n\n /** Subtracts the other value from this value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n
\n /** Subtracts the other value from this value. *\n @kotlin.internal.InlineOnly\n public inline operator fun
minus(other: ULong): ULong = this.toULong().minus(other)\n\n /** Multiplies this value by the other value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): UInt =
this.toUInt().times(other.toUInt())\n\n /** Multiplies this value by the other value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())\n\n /** Multiplies this value by the other value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n
\n /** Multiplies this value by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\n\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UInt): UInt = this.toUInt().div(other)\n\n /** Divides this value by the other value, truncating the
result to an integer that is closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator fun div(other:
ULong): ULong = this.toULong().div(other)\n\n /**\n * Calculates the remainder of truncating division of this
value by the other value.\n * \n * The result is always less than the divisor.\n *^\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): UInt =
this.toUInt().rem(other.toUInt())\n\n /**\n * Calculates the remainder of truncating division of this value by the
other value.\n * \n * The result is always less than the divisor.\n *^\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\n\n /**\n * Calculates the
remainder of truncating division of this value by the other value.\n * \n * The result is always less than the
divisor.\n *^\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt =

```

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this.toUInt().rem(other)\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /**\n * Divides this value by
the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types,
the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UByte): UInt = this.toUInt().floorDiv(other.toUInt())\n\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UShort): UInt = this.toUInt().floorDiv(other.toUInt())\n\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)\n\n /**\n * Divides this value by the
other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the
results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public
inline fun floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the
remainder of flooring division of this value by the other value.\n * \n * The result is always less than the
divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte =
this.toUInt().mod(other.toUInt()).toUByte()\n\n /**\n * Calculates the remainder of flooring division of this value
by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the
remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun mod(other: UShort): UShort = this.toUInt().mod(other.toUInt()).toUShort()\n\n /**\n *
Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less
than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the
same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt =
this.toUInt().mod(other)\n\n /**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of
flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun
mod(other: ULong): ULong = this.toULong().mod(other)\n\n /**\n * Returns this value incremented by one.\n
*/\n @sample samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
inc(): UShort = UShort(data.inc())\n\n /**\n * Returns this value decremented by one.\n */\n @sample
samples.misc.Builtins.dec\n */\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UShort =
UShort(data.dec())\n\n /**\n * Creates a range from this value to the specified [other] value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UShort): UIntRange =
UIntRange(this.toUInt(), other.toUInt())\n\n /**\n * Performs a bitwise AND operation between the two values. */\n
@kotlin.internal.InlineOnly\n public inline infix fun and(other: UShort): UShort = UShort(this.data and
other.data)\n\n /**\n * Performs a bitwise OR operation between the two values. */\n @kotlin.internal.InlineOnly\n
public inline infix fun or(other: UShort): UShort = UShort(this.data or other.data)\n\n /**\n * Performs a bitwise XOR
operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: UShort):
UShort = UShort(this.data xor other.data)\n\n /**\n * Inverts the bits in this value. */\n @kotlin.internal.InlineOnly\n
public inline fun inv(): UShort = UShort(data.inv())\n\n /**\n * Converts this [UShort] value to [Byte].\n * \n
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same
numerical value as this `UShort`.\n * \n * The resulting `Byte` value is represented by the least significant 8 bits
of this `UShort` value.\n * \n * Note that the resulting `Byte` value may be negative.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n\n /**\n * Converts this [UShort]
value to [Short].\n * \n * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value
represents\n * the same numerical value as this `UShort`. Otherwise the result is negative.\n * \n * The
resulting `Short` value has the same binary representation as this `UShort` value.\n */\n

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@kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data\n /**\n * Converts this [UShort] value
to [Int].\n *\n * The resulting `Int` value represents the same numerical value as this `UShort`.\n *\n * The
least significant 16 bits of the resulting `Int` value are the same as the bits of this `UShort` value,\n
* whereas the most significant 16 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int
= data.toInt() and 0xFFFF\n /**\n * Converts this [UShort] value to [Long].\n *\n * The resulting `Long`
value represents the same numerical value as this `UShort`.\n *\n * The least significant 16 bits of the resulting
`Long` value are the same as the bits of this `UShort` value,\n * whereas the most significant 48 bits are filled
with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and
0xFFFF\n\n /**\n * Converts this [UShort] value to [UByte].\n *\n * If this value is less than or equals to
[UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `UShort`.\n
*\n * The resulting `UByte` value is represented by the least significant 8 bits of this `UShort` value.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = data.toUByte()\n /** Returns this value. */\n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = this\n /**\n * Converts this [UShort]
value to [UInt].\n *\n * The resulting `UInt` value represents the same numerical value as this `UShort`.\n
*\n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value,\n
* whereas the most significant 16 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline
fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF)\n /**\n * Converts this [UShort] value to [ULong].\n *\n
* The resulting `ULong` value represents the same numerical value as this `UShort`.\n *\n * The least
significant 16 bits of the resulting `ULong` value are the same as the bits of this `UShort` value,\n * whereas the
most significant 48 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toULong():
ULong = ULong(data.toLong() and 0xFFFF)\n\n /**\n * Converts this [UShort] value to [Float].\n *\n *
The resulting `Float` value represents the same numerical value as this `UShort`.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toInt().toFloat()\n /**\n * Converts this
[UShort] value to [Double].\n *\n * The resulting `Double` value represents the same numerical value as this
`UShort`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double =
this.toInt().toDouble()\n\n public override fun toString(): String = toInt().toString()\n\n /**\n * Converts this
[Byte] value to [UShort].\n *\n * If this value is positive, the resulting `UShort` value represents the same numerical
value as this `Byte`.\n *\n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this
`Byte` value,\n * whereas the most significant 8 bits are filled with the sign bit of this value.\n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Byte.toUShort(): UShort = UShort(this.toShort())\n /**\n * Converts this [Short] value to
[UShort].\n *\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this
`Short`.\n *\n * The resulting `UShort` value has the same binary representation as this `Short` value.\n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Short.toUShort(): UShort = UShort(this)\n /**\n * Converts this [Int] value to [UShort].\n *\n
* If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n
* the same numerical value as this `Int`.\n *\n * The resulting `UShort` value is represented by the least significant
16 bits of this `Int` value.\n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Int.toUShort(): UShort = UShort(this.toShort())\n /**\n * Converts this [Long] value to
[UShort].\n *\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort`
value represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UShort` value is represented by
the least significant 16 bits of this `Long` value.\n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Long.toUShort(): UShort = UShort(this.toShort())\n\n /*\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n // Auto-generated file. DO NOT EDIT!\n\n package
kotlin.ranges\n\n /**\n * A range of values of type `Char`.\n */\n @kotlin.internal.InlineOnly\n public class CharRange(start: Char, endInclusive:

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Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {
    override val start: Char get() = first
    override val endInclusive: Char get() = last
    override fun contains(value: Char): Boolean = first <= value &&
value <= last
    /**
     * Checks whether the range is empty.
     * The range is empty if its start value is
greater than the end value.
     */
    override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean =
other is CharRange && (isEmpty() && other.isEmpty()) ||
first == other.first && last == other.last
    override fun hashCode(): Int =
if (isEmpty()) -1 else (31 * first.code + last.code)
    override fun toString(): String = "$first..$last"
    companion object {
        /** An empty range of values of
type Char.
        */
        public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())
    }
}

/** A
range of values of type `Int`.
*/
public class IntRange(start: Int, endInclusive: Int) : IntProgression(start,
endInclusive, 1), ClosedRange<Int> {
    override val start: Int get() = first
    override val endInclusive: Int get() = last
    override fun contains(value: Int): Boolean = first <= value && value <= last
    /**
     * Checks
whether the range is empty.
     * The range is empty if its start value is greater than the end value.
     */
    override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean =
other is IntRange && (isEmpty() && other.isEmpty()) ||
first == other.first && last == other.last
    override fun hashCode(): Int =
if (isEmpty()) -1 else (31 * first + last)
    override fun toString(): String =
"$first..$last"
    companion object {
        /** An empty range of values of type Int.
        */
        public val EMPTY: IntRange = IntRange(1, 0)
    }
}

/** A range of values of type `Long`.
*/
public class LongRange(start: Long, endInclusive: Long) : LongProgression(start, endInclusive, 1), ClosedRange<Long> {
    override val start: Long get() = first
    override val endInclusive: Long get() = last
    override fun contains(value: Long): Boolean = first <= value && value <= last
    /**
     * Checks whether the range is
empty.
     * The range is empty if its start value is greater than the end value.
     */
    override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean =
other is LongRange && (isEmpty() && other.isEmpty()) ||
first == other.first && last == other.last
    override fun hashCode(): Int =
if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr 32)))
    override fun toString(): String = "$first..$last"
    companion object {
        /** An empty range of values of type Long.
        */
        public val EMPTY: LongRange = LongRange(1, 0)
    }
}

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that can be found in the license/LICENSE.txt file.
*/

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")
@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)
package kotlin.collections
import kotlin.contracts.*
import kotlin.random.Random
internal object EmptyIterator : ListIterator<Nothing> {
    override fun hasNext(): Boolean = false
    override fun hasPrevious(): Boolean = false
    override fun nextIndex(): Int = 0
    override fun previousIndex(): Int = -1
    override fun next(): Nothing = throw NoSuchElementException()
    override fun previous(): Nothing = throw NoSuchElementException()
}
internal object EmptyList : List<Nothing>,
Serializable, RandomAccess {
    private const val serialVersionUID: Long = -7390468764508069838L
    override fun equals(other: Any?): Boolean = other is List<*> && other.isEmpty()
    override fun hashCode(): Int = 1
    override fun toString(): String = "[]"
    override val size: Int get() = 0
    override fun isEmpty(): Boolean = true
    override fun contains(element: Nothing): Boolean = false
    override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()
    override fun get(index: Int): Nothing = throw IndexOutOfBoundsException("Empty list doesn't contain element at index $index.")
    override fun indexOf(element: Nothing): Int = -1
    override fun lastIndexOf(element: Nothing): Int = -1
    override fun iterator(): Iterator<Nothing> = EmptyIterator
    override fun listIterator(): ListIterator<Nothing> = EmptyIterator
    override fun listIterator(index: Int): ListIterator<Nothing> {
        if (index != 0) throw IndexOutOfBoundsException("Index: $index")
        return EmptyIterator
    }
    override fun subList(fromIndex: Int, toIndex: Int): List<Nothing> {
        if (fromIndex == 0 && toIndex == 0) return this
        throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex")
    }
    private fun readResolve(): Any = EmptyList
}
internal fun <T> Array<out T>.asCollection(): Collection<T> =
ArrayAsCollection(this, isVarargs = false)
private class ArrayAsCollection<T>(val values: Array<out T>, val

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isVarargs: Boolean) : Collection<T> {\n  override val size: Int get() = values.size\n  override fun isEmpty():
Boolean = values.isEmpty()\n  override fun contains(element: T): Boolean = values.contains(element)\n  override
fun containsAll(elements: Collection<T>): Boolean = elements.all { contains(it) }\n  override fun iterator():
Iterator<T> = values.iterator()\n  // override hidden toArray implementation to prevent copying of values array\n
public fun toArray(): Array<out Any?> = values.toArrayOfAny(isVarargs)\n}\n\n/**\n * Returns an empty
read-only list. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.emptyReadOnlyList\n * \npublic fun <T> emptyList(): List<T> =
EmptyList\n\n/**\n * Returns a new read-only list of given elements. The returned list is serializable (JVM).\n *
@sample samples.collections.Collections.Lists.readOnlyList\n * \npublic fun <T> listOf(vararg elements: T):
List<T> = if (elements.size > 0) elements.asList() else emptyList()\n\n/**\n * Returns an empty read-only list. The
returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> listOf(): List<T> = emptyList()\n\n/**\n * Returns an empty
new [MutableList].\n * @sample samples.collections.Collections.Lists.emptyMutableList\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableListOf(): MutableList<T> =
ArrayList()\n\n/**\n * Returns an empty new [ArrayList].\n * @sample
samples.collections.Collections.Lists.emptyArrayList\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> arrayListOf(): ArrayList<T> =
ArrayList()\n\n/**\n * Returns a new [MutableList] with the given elements.\n * @sample
samples.collections.Collections.Lists.mutableList\n * \npublic fun <T> mutableListOf(vararg elements: T):
MutableList<T> =\n  if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs =
true))\n\n/**\n * Returns a new [ArrayList] with the given elements.\n * @sample
samples.collections.Collections.Lists.arrayList\n * \npublic fun <T> arrayListOf(vararg elements: T): ArrayList<T>
=\n  if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n *
Returns a new read-only list either of single given element, if it is not null, or empty list if the element is null. The
returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.listOfNotNull\n * \npublic fun
<T : Any> listOfNotNull(element: T?): List<T> = if (element != null) listOf(element) else emptyList()\n\n/**\n *
Returns a new read-only list only of those given elements, that are not null. The returned list is serializable
(JVM).\n * @sample samples.collections.Collections.Lists.listOfNotNull\n * \npublic fun <T : Any>
listOfNotNull(vararg elements: T?): List<T> = elements.filterNotNull()\n\n/**\n * Creates a new read-only list with
the specified [size], where each element is calculated by calling the specified\n * [init] function.\n * \n * The
function [init] is called for each list element sequentially starting from the first one.\n * It should return the value for
a list element given its index.\n * \n * @sample samples.collections.Collections.Lists.readOnlyListFromInitializer\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> List(size: Int, init: (index: Int) -> T):
List<T> = MutableList(size, init)\n\n/**\n * Creates a new mutable list with the specified [size], where each element
is calculated by calling the specified\n * [init] function.\n * \n * The function [init] is called for each list element
sequentially starting from the first one.\n * It should return the value for a list element given its index.\n * \n *
@sample samples.collections.Collections.Lists.mutableListFromInitializer\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> MutableList(size: Int, init: (index:
Int) -> T): MutableList<T> {\n  val list = ArrayList<T>(size)\n  repeat(size) { index -> list.add(init(index)) }\n
return list\n}\n\n/**\n * Builds a new read-only [List] by populating a [MutableList] using the given
[builderAction]\n * and returning a read-only list with the same elements.\n * \n * The list passed as a receiver to the
[builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified
behavior.\n * \n * The returned list is serializable (JVM).\n * \n * @sample
samples.collections.Builders.Lists.buildListSample\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <E> buildList(@BuilderInference builderAction: MutableList<E>.() -> Unit): List<E> {\n  contract {
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n  return
buildListInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\nninter

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nal expect inline fun <E> buildListInternal(builderAction: MutableList<E>().-> Unit): List<E> {
    * Builds a new read-only [List] by populating a [MutableList] using the given [builderAction]
    * and returning a read-only list with the same elements.
    * The list passed as a receiver to the [builderAction] is valid only inside that function.
    * Using it outside of the function produces an unspecified behavior.
    * The returned list is serializable (JVM).
    * [capacity] is used to hint the expected number of elements added in the [builderAction].
    * @throws IllegalArgumentException if the given [capacity] is negative.
    * @sample samples.collections.Builders.Lists.buildListSampleWithCapacity
}

* \n @SinceKotlin("1.6") \n @WasExperimental(ExperimentalStdlibApi::class) \n @kotlin.internal.InlineOnly \n public inline fun <E> buildList(capacity: Int, @BuilderInference builderAction: MutableList<E>().-> Unit): List<E> {
    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
    return buildListInternal(capacity, builderAction)
}

* \n @PublishedApi \n @SinceKotlin("1.3") \n @kotlin.internal.InlineOnly \n internal expect inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>().-> Unit): List<E> {
    * Returns an [IntRange] of the valid indices for this collection.
    * @sample samples.collections.Collections.Collections.indicesOfCollection
}

* \n public val Collection<*>.indices: IntRange
    get() = 0..size - 1
    * Returns the index of the last item in the list or -1 if the list is empty.
    * @sample samples.collections.Collections.Lists.lastIndexOfList
}

* \n public val <T> List<T>.lastIndex: Int
    get() = this.size - 1
    * Returns `true` if the collection is not empty.
    * @sample samples.collections.Collections.Collections.collectionIsNotEmpty
}

* \n @kotlin.internal.InlineOnly \n public inline fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()
    * Returns `true` if this nullable collection is either null or empty.
    * @sample samples.collections.Collections.Collections.collectionIsNullOrEmpty
}

* \n @SinceKotlin("1.3") \n @kotlin.internal.InlineOnly \n public inline fun <T> Collection<T>?.isNullOrEmpty(): Boolean {
    contract {
        returns(false) implies (this@isNullOrEmpty != null)
    }
    return this == null || this.isEmpty()
}

* \n * Returns this Collection if it's not `null` and the empty list otherwise.
    * @sample samples.collections.Collections.Collections.collectionOrElse
}

* \n @kotlin.internal.InlineOnly \n public inline fun <T> Collection<T>?.orElse(): Collection<T> = this ?: emptyList()
    * Returns this List if it's not `null` and the empty list otherwise.
    * @sample samples.collections.Collections.Lists.listOrElse
}

* \n @kotlin.internal.InlineOnly \n public inline fun <T> List<T>?.orElse(): List<T> = this ?: emptyList()
    * Returns this collection if it's not empty
    * or the result of calling [defaultValue] function if the collection is empty.
    * @sample samples.collections.Collections.Collections.collectionIfEmpty
}

* \n @SinceKotlin("1.3") \n @kotlin.internal.InlineOnly \n public inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Collection<*>, C : R =
    if (isEmpty()) defaultValue() else this
    * Checks if all elements in the specified collection are contained in this collection.
    * Allows to overcome type-safety restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.
    * @sample samples.collections.Collections.Collections.collectionContainsAll
}

* \n @Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in some cases
* \n @kotlin.internal.InlineOnly \n public inline fun <@kotlin.internal.OnlyInputTypes T> Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)
    * Returns a new list with the elements of this list randomly shuffled
    * using the specified [random] instance as the source of randomness.
    * \n @SinceKotlin("1.3") \n public fun <T> Iterable<T>.shuffled(random: Random): List<T> = toMutableList().apply { shuffle(random) }
    * \n internal fun <T> List<T>.optimizeReadOnlyList() = when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this
    }
    * Searches this list or its range for the provided [element] using the binary search algorithm.
    * The list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements,
    * otherwise the result is undefined.
    * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.
    * `null` value is considered to be less than any non-null value.
    * @return the index of the element, if it is contained in the list within the specified range;
    * otherwise, the inverted insertion point `(-insertion point - 1)`.
    * The insertion point is defined as the index at which the element should be inserted,
    * so that the list (or the specified subrange of list) still remains sorted.
    * @sample

```

```

samples.collections.Collections.Lists.binarySearchOnComparable\n * @sample
samples.collections.Collections.Lists.binarySearchWithBoundaries\n *\npublic fun <T : Comparable<T>>
List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\n    rangeCheck(size, fromIndex,
toIndex)\n\n    var low = fromIndex\n    var high = toIndex - 1\n\n    while (low <= high) {\n        val mid = (low +
high).ushr(1) // safe from overflows\n        val midVal = get(mid)\n        val cmp = compareValues(midVal,
element)\n\n        if (cmp < 0)\n            low = mid + 1\n        else if (cmp > 0)\n            high = mid - 1\n        else\n            return mid // key found\n    }\n    return -(low + 1) // key not found\n}\n\n/**\n * Searches this list or its range
for the provided [element] using the binary search algorithm.\n * The list is expected to be sorted into ascending
order according to the specified [comparator],\n * otherwise the result is undefined.\n * \n * If the list contains
multiple elements equal to the specified [element], there is no guarantee which one will be found.\n * \n * `null`
value is considered to be less than any non-null value.\n * \n * @return the index of the element, if it is contained in
the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The
insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified
subrange of list) still remains sorted according to the specified [comparator].\n * @sample
samples.collections.Collections.Lists.binarySearchWithComparator\n *\npublic fun <T>
List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\n
rangeCheck(size, fromIndex, toIndex)\n\n    var low = fromIndex\n    var high = toIndex - 1\n\n    while (low <=
high) {\n        val mid = (low + high).ushr(1) // safe from overflows\n        val midVal = get(mid)\n        val cmp =
comparator.compare(midVal, element)\n\n        if (cmp < 0)\n            low = mid + 1\n        else if (cmp > 0)\n
high = mid - 1\n        else\n            return mid // key found\n    }\n    return -(low + 1) // key not found\n}\n\n/**\n * Searches this list or its range for an element having the key returned by the specified [selector] function\n * equal to
the provided [key] value using the binary search algorithm.\n * The list is expected to be sorted into ascending order
according to the Comparable natural ordering of keys of its elements.\n * otherwise the result is undefined.\n * \n * If
the list contains multiple elements with the specified [key], there is no guarantee which one will be found.\n * \n *
`null` value is considered to be less than any non-null value.\n * \n * @return the index of the element with the
specified [key], if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point
`(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so
that the list (or the specified subrange of list) still remains sorted.\n * @sample
samples.collections.Collections.Lists.binarySearchByKey\n *\npublic inline fun <T, K : Comparable<K>>
List<T>.binarySearchBy(\n    key: K?,\n    fromIndex: Int = 0,\n    toIndex: Int = size,\n    crossinline selector: (T) ->
K?)\n): Int =\n    binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }\n\n// do not introduce this
overload --- too rare\n//\npublic fun <T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>,
fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int =\n//    binarySearch(fromIndex, toIndex) {\n
comparator.compare(selector(it), key) }\n\n/**\n * Searches this list or its range for an element for which the
given [comparison] function returns zero using the binary search algorithm.\n * \n * The list is expected to be sorted
so that the signs of the [comparison] function's return values ascend on the list elements,\n * i.e. negative values
come before zero and zeroes come before positive values.\n * \n * Otherwise, the result is undefined.\n * \n * If the
list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found.\n *
\n * @param comparison function that returns zero when called on the list element being searched.\n * \n * On the
elements coming before the target element, the function must return negative values;\n * on the elements coming
after the target element, the function must return positive values.\n * \n * @return the index of the found element, if
it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point -
1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or
the specified subrange of list) still remains sorted.\n * @sample
samples.collections.Collections.Lists.binarySearchWithComparisonFunction\n *\npublic fun <T>
List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {\n    rangeCheck(size,
fromIndex, toIndex)\n\n    var low = fromIndex\n    var high = toIndex - 1\n\n    while (low <= high) {\n        val mid
= (low + high).ushr(1) // safe from overflows\n        val midVal = get(mid)\n        val cmp = comparison(midVal)\n\n

```



```

        if (cmp < 0) low = mid + 1 else if (cmp > 0) high = mid - 1 else return
mid // key found } return -(low + 1) // key not found
}

 * Checks that `from` and `to` are in the
range of [0..size] and throws an appropriate exception, if they aren't.
 *
private fun rangeCheck(size: Int,
fromIndex: Int, toIndex: Int) {
    when {
        fromIndex > toIndex -> throw
IllegalArgumentException("fromIndex ($fromIndex) is greater than toIndex ($toIndex).")
        fromIndex < 0 ->
throw IndexOutOfBoundsException("fromIndex ($fromIndex) is less than zero.")
        toIndex > size -> throw
IndexOutOfBoundsException("toIndex ($toIndex) is greater than size ($size).")
    }
}

@PublishedApi
@SinceKotlin("1.3")
internal expect fun checkIndexOverflow(index: Int):
Int

@PublishedApi
@SinceKotlin("1.3")
internal expect fun checkCountOverflow(count: Int):
Int

@PublishedApi
@SinceKotlin("1.3")
internal fun throwIndexOverflow() { throw
ArithmeticException("Index overflow has happened.") }

@PublishedApi
@SinceKotlin("1.3")
internal fun
throwCountOverflow() { throw ArithmeticException("Count overflow has happened.") }

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 *
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MapsKt")
@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)
package kotlin.collections
import kotlin.contracts.*

private object
EmptyMap : Map<Any?, Nothing>, Serializable {
    private const val serialVersionUID: Long =
8246714829545688274
    override fun equals(other: Any?): Boolean = other is Map<*, *> &&
other.isEmpty()
    override fun hashCode(): Int = 0
    override fun toString(): String = "{}"
    override val
size: Int get() = 0
    override fun isEmpty(): Boolean = true
    override fun containsKey(key: Any?): Boolean =
false
    override fun containsValue(value: Nothing): Boolean = false
    override fun get(key: Any?): Nothing? =
null
    override val entries: Set<Map.Entry<Any?, Nothing>> get() = EmptySet
    override val keys: Set<Any?>
get() = EmptySet
    override val values: Collection<Nothing> get() = EmptyList
    private fun readResolve():
Any = EmptyMap
}

 * Returns an empty read-only map of specified type.
 *
 * The returned map is
serializable (JVM).
 *
@sample samples.collections.Maps.Instantiation.emptyReadOnlyMap
 *
public fun <K,
V> emptyMap(): Map<K, V> = @Suppress("UNCHECKED_CAST") (EmptyMap as Map<K, V>)

 *
 * Returns a new read-only map with the specified contents, given as a list of pairs
 *
 * where the first value is the key
and the second is the value.
 *
 * If multiple pairs have the same key, the resulting map will contain the value
from the last of those pairs.
 *
 * Entries of the map are iterated in the order they were specified.
 *
 * The
returned map is serializable (JVM).
 *
@sample samples.collections.Maps.Instantiation.mapFromPairs
 *
public fun <K, V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> =
    if (pairs.size > 0)
pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else emptyMap()

 * Returns an empty read-only
map.
 *
 * The returned map is serializable (JVM).
 *
@sample
samples.collections.Maps.Instantiation.emptyReadOnlyMap
 *
@kotlin.internal.InlineOnly
public inline fun
<K, V> mapOf(): Map<K, V> = emptyMap()

 * Returns an empty new [MutableMap].
 *
 * The returned
map preserves the entry iteration order.
 *
@sample samples.collections.Maps.Instantiation.emptyMutableMap
 *
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <K, V> mutableMapOf():
MutableMap<K, V> = LinkedHashMap()

 * Returns a new [MutableMap] with the specified contents, given
as a list of pairs
 *
 * where the first component is the key and the second is the value.
 *
 * If multiple pairs have
the same key, the resulting map will contain the value from the last of those pairs.
 *
 * Entries of the map are
iterated in the order they were specified.
 *
@sample
samples.collections.Maps.Instantiation.mutableMapFromPairs
 *
@sample
samples.collections.Maps.Instantiation.emptyMutableMap
 *
public fun <K, V> mutableMapOf(vararg pairs:
Pair<K, V>): MutableMap<K, V> =
    LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs)
}

 * Returns an empty new [HashMap].
 *
@sample
samples.collections.Maps.Instantiation.emptyHashMap
 *
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <K, V> hashMapOf(): HashMap<K, V>
= HashMap<K, V>()

 * Returns a new [HashMap] with the specified contents, given as a list of pairs
 *

```

where the first component is the key and the second is the value.

```

@sample
samples.collections.Maps.Instantiation.hashMapFromPairs
public fun <K, V> hashMapOf(vararg pairs:
Pair<K, V>): HashMap<K, V> = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }
Returns an empty new [HashMap].
@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public inline
fun <K, V> linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()
Returns a new
[HashMap] with the specified contents, given as a list of pairs
where the first component is the key and
the second is the value.
If multiple pairs have the same key, the resulting map will contain the value from the
last of those pairs.
Entries of the map are iterated in the order they were specified.
@sample
samples.collections.Maps.Instantiation.linkedMapFromPairs
public fun <K, V> linkedMapOf(vararg pairs:
Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(HashMap(mapCapacity(pairs.size)))
Builds
a new read-only [Map] by populating a [MutableMap] using the given [builderAction]
and returning a read-only
map with the same key-value pairs.
The map passed as a receiver to the [builderAction] is valid only inside
that function.
Using it outside of the function produces an unspecified behavior.
Entries of the map are
iterated in the order they were added by the [builderAction].
The returned map is serializable (JVM).
@sample
samples.collections.Builders.Maps.buildMapSample
@SinceKotlin("1.6")@WasExperimental(ExperimentalStdlibApi::class)@kotlin.internal.InlineOnly
public inline fun <K, V> buildMap(@BuilderInference builderAction: MutableMap<K, V>().->Unit): Map<K, V> {
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
return
buildMapInternal(builderAction)
}
@PublishedApi
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
internal expect inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>().->Unit): Map<K,
V>
Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction]
and
returning a read-only map with the same key-value pairs.
The map passed as a receiver to the
[builderAction] is valid only inside that function.
Using it outside of the function produces an unspecified
behavior.
[capacity] is used to hint the expected number of pairs added in the [builderAction].
Entries
of the map are iterated in the order they were added by the [builderAction].
The returned map is serializable
(JVM).
@throws IllegalArgumentException if the given [capacity] is negative.
@sample
samples.collections.Builders.Maps.buildMapSample
@SinceKotlin("1.6")@WasExperimental(ExperimentalStdlibApi::class)@kotlin.internal.InlineOnly
public inline fun <K, V> buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>().->Unit):
Map<K, V> {
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
return
buildMapInternal(capacity,
builderAction)
}
@PublishedApi
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
internal expect inline
fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>().->Unit): Map<K, V>
Calculate the initial capacity of a map.
@PublishedApi
internal expect fun mapCapacity(expectedSize: Int):
Int
Returns `true` if this map is not empty.
@sample
samples.collections.Maps.Usage.mapIsNotEmpty
@kotlin.internal.InlineOnly
public inline fun <K, V>
Map<out K, V>.isEmpty(): Boolean = !isEmpty()
Returns `true` if this nullable map is either null or
empty.
@sample
samples.collections.Maps.Usage.mapIsNullOrEmpty
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K,
V>?.isNullOrEmpty(): Boolean {
contract {
returns(false) implies (this@isNullOrEmpty != null)
}
return this == null || isEmpty()
}
Returns the [Map] if its not `null`, or the empty [Map] otherwise.
@sample
samples.collections.Maps.Usage.mapOrElse
@kotlin.internal.InlineOnly
public inline fun
<K, V> Map<K, V>?.orElse(): Map<K, V> = this ?: emptyMap()
Returns this map if it's not empty
or the result of calling [defaultValue] function if the map is empty.
@sample
samples.collections.Maps.Usage.mapIfEmpty
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public
inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =
if (isEmpty())
defaultValue() else this
Checks if the map contains the given key.
This method allows to use the
`x in map` syntax for checking whether an object is contained in the map.
@sample

```

```

samples.collections.Maps.Usage.containsKey\n *^@kotlin.internal.InlineOnly\npublic inline operator fun
<@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean = containsKey(key)\n\n/**\n *
Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K,
V>.get(key: K): V? =\n    @Suppress(\`"UNCHECKED_CAST"\`) (this as Map<K, V>).get(key)\n\n/**\n * Allows
to use the index operator for storing values in a mutable map.\n *^@kotlin.internal.InlineOnly\npublic inline
operator fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit {\n    put(key, value)\n}\n\n/**\n * Returns
`true` if the map contains the specified [key].\n *^@kotlin.internal.InlineOnly\npublic inline fun
<@kotlin.internal.OnlyInputTypes K> Map<out K, *>.containsKey(key: K): Boolean =\n    @Suppress(\`"UNCHECKED_CAST"\`) (this as Map<K, *>).containsKey(key)\n\n/**\n * Returns `true` if the map
maps one or more keys to the specified [value].\n *^@kotlin.internal.InlineOnly\npublic inline fun
<@kotlin.internal.OnlyInputTypes K, V> Map<K, V>.containsValue(value: V): Boolean =\n    this.containsValue(value)\n\n/**\n * Removes the specified key and its corresponding value from this map.\n *^@kotlin.internal.InlineOnly\npublic inline fun
<@kotlin.internal.OnlyInputTypes K, V> Map<K, V>.remove(key: K): V? =\n    @Suppress(\`"UNCHECKED_CAST"\`) (this as MutableMap<K,
V>).remove(key)\n\n/**\n * Returns the key component of the map entry.\n *^@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> Map.Entry<K, V>.component1(): K = key\n\n/**\n * Returns the value component of the map entry.\n *^@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> Map.Entry<K, V>.component2(): V =
value\n\n/**\n * Converts entry to [Pair] with key being first component and value being second.\n *^@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key,
value)\n\n/**\n * Returns the value for the given key, or the result of the [defaultValue] function if there was no
entry for the given key.\n *^@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map.Entry<K, V>.getValue(key: K): V =
getOrImplicitDefault(key)\n\n/**\n * Returns the value for the given key. If the key is not found in the map, calls
the [defaultValue] function,\n *^@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> Map<out K, V>.iterator():

```

```

Iterator<Map.Entry<K, V>> = entries.iterator()\n\n/**\n * Returns a [MutableIterator] over the mutable entries in
the [MutableMap].\n *\n * @kotlin.jvm.JvmName("\n\nmutableIterator")\n\n@kotlin.internal.InlineOnly\n\npublic
inline operator fun <K, V> MutableMap<K, V>.iterator(): MutableIterator<MutableMap.MutableEntry<K, V>> =
entries.iterator()\n\n/**\n * Populates the given [destination] map with entries having the keys of this map and the
values obtained\n * by applying the [transform] function to each entry in this [Map].\n *\n * @public inline fun <K, V,
R, M : MutableMap<in K, in R>> Map<out K, V>.mapValuesTo(destination: M, transform: (Map.Entry<K, V>) ->
R): M {\n   return entries.associateByTo(destination, { it.key }, transform)\n}\n\n/**\n * Populates the given
[destination] map with entries having the keys obtained\n * by applying the [transform] function to each entry in this
[Map] and the values of this map.\n *\n * In case if any two entries are mapped to the equal keys, the value of the
latter one will overwrite\n * the value associated with the former one.\n *\n * @public inline fun <K, V, R, M :
MutableMap<in R, in V>> Map<out K, V>.mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> R): M
{\n   return entries.associateByTo(destination, transform, { it.value })\n}\n\n/**\n * Puts all the given [pairs] into
this [MutableMap] with the first component in the pair being the key and the second the value.\n *\n * @public fun <K,
V> MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {\n   for ((key, value) in pairs) {\n
put(key, value)\n   }\n}\n\n/**\n * Puts all the elements of the given collection into this [MutableMap] with the first
component in the pair being the key and the second the value.\n *\n * @public fun <K, V> MutableMap<in K, in
V>.putAll(pairs: Iterable<Pair<K, V>>): Unit {\n   for ((key, value) in pairs) {\n     put(key, value)\n
}\n}\n\n/**\n * Puts all the elements of the given sequence into this [MutableMap] with the first component in the
pair being the key and the second the value.\n *\n * @public fun <K, V> MutableMap<in K, in V>.putAll(pairs:
Sequence<Pair<K, V>>): Unit {\n   for ((key, value) in pairs) {\n     put(key, value)\n   }\n}\n\n/**\n * Returns a
new map with entries having the keys of this map and the values obtained by applying the [transform]\n * function
to each entry in this [Map].\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n *
@sample samples.collections.Maps.Transformations.mapValues\n *\n * @public inline fun <K, V, R> Map<out K,
V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {\n   return mapValuesTo(LinkedHashMap<K,
R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a new Map with entries
having the keys obtained by applying the [transform] function to each entry in this\n * [Map] and the values of this
map.\n *\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\n *
the value associated with the former one.\n *\n * The returned map preserves the entry iteration order of the original
map.\n *\n * @sample samples.collections.Maps.Transformations.mapKeys\n *\n * @public inline fun <K, V, R>
Map<out K, V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {\n   return
mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a map containing all key-value pairs with keys matching the given [predicate].\n *\n * The returned map
preserves the entry iteration order of the original map.\n *\n * @sample samples.collections.Maps.Filtering.filterKeys\n
*\n * @public inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {\n   val result =
LinkedHashMap<K, V>()\n   for (entry in this) {\n     if (predicate(entry.key)) {\n       result.put(entry.key,
entry.value)\n     }\n   }\n   return result\n}\n\n/**\n * Returns a map containing all key-value pairs with values
matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n *
@sample samples.collections.Maps.Filtering.filterValues\n *\n * @public inline fun <K, V> Map<out K,
V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\n   val result = LinkedHashMap<K, V>()\n   for (entry
in this) {\n     if (predicate(entry.value)) {\n       result.put(entry.key, entry.value)\n     }\n   }\n   return
result\n}\n\n/**\n * Appends all entries matching the given [predicate] into the mutable map given as [destination]
parameter.\n *\n * @return the destination map.\n *\n * @sample samples.collections.Maps.Filtering.filterTo\n
*\n * @public inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterTo(destination: M, predicate:
(Map.Entry<K, V>) -> Boolean): M {\n   for (element in this) {\n     if (predicate(element)) {\n
destination.put(element.key, element.value)\n     }\n   }\n   return destination\n}\n\n/**\n * Returns a new map
containing all key-value pairs matching the given [predicate].\n *\n * The returned map preserves the entry iteration
order of the original map.\n *\n * @sample samples.collections.Maps.Filtering.filter\n *\n * @public inline fun <K, V>
Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n   return

```

```

filterTo(LinkedHashMap<K, V>(), predicate)\n\n/**\n * Appends all entries not matching the given [predicate]
into the given [destination].\n *\n * @return the destination map.\n *\n * @sample
samples.collections.maps.filtering.filterNotTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>>
Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n    for (element in
this) {\n        if (!predicate(element)) {\n            destination.put(element.key, element.value)\n        }\n    }\n    return
destination\n}\n\n/**\n * Returns a new map containing all key-value pairs not matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n * @sample
samples.collections.maps.filtering.filterNot\n */\npublic inline fun <K, V> Map<out K, V>.filterNot(predicate:
(Map.Entry<K, V>) -> Boolean): Map<K, V> {\n    return filterNotTo(LinkedHashMap<K, V>(),
predicate)\n}\n\n/**\n * Returns a new map containing all key-value pairs from the given collection of pairs.\n *\n * The returned map preserves the entry iteration order of the original collection.\n *\n * If any of two pairs would have the
same key the last one gets added to the map.\n *\n */\npublic fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V>
{\n    if (this is Collection) {\n        return when (size) {\n            0 -> emptyMap()\n            1 -> mapOf(if (this is
List) this[0] else iterator().next())\n            else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n        }\n    }\n    return toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs from the given collection of pairs.\n *\n */\npublic fun <K, V, M :
MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =\n    destination.apply {
putAll(this@toMap) }\n\n/**\n * Returns a new map containing all key-value pairs from the given array of pairs.\n *\n * The returned map preserves the entry iteration order of the original array.\n *\n * If any of two pairs would have
the same key the last one gets added to the map.\n *\n */\npublic fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K,
V> = when (size) {\n    0 -> emptyMap()\n    1 -> mapOf(this[0])\n    else -> toMap(LinkedHashMap<K,
V>(mapCapacity(size)))\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs
from the given array of pairs.\n *\n */\npublic fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K,
V>>.toMap(destination: M): M =\n    destination.apply { putAll(this@toMap) }\n\n/**\n * Returns a new map
containing all key-value pairs from the given sequence of pairs.\n *\n * The returned map preserves the entry
iteration order of the original sequence.\n *\n * If any of two pairs would have the same key the last one gets added to
the map.\n *\n */\npublic fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K,
V>()).optimizeReadOnlyMap()\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs
from the given sequence of pairs.\n *\n */\npublic fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K,
V>>.toMap(destination: M): M =\n    destination.apply { putAll(this@toMap) }\n\n/**\n * Returns a new read-only
map containing all key-value pairs from the original map.\n *\n * The returned map preserves the entry iteration
order of the original map.\n *\n */\n@SinceKotlin("1.1")\npublic fun <K, V> Map<out K, V>.toMap(): Map<K, V> =
when (size) {\n    0 -> emptyMap()\n    1 -> toSingletonMap()\n    else -> toMutableMap()\n}\n\n/**\n * Returns a
new mutable map containing all key-value pairs from the original map.\n *\n * The returned map preserves the entry
iteration order of the original map.\n *\n */\n@SinceKotlin("1.1")\npublic fun <K, V> Map<out K,
V>.toMutableMap(): MutableMap<K, V> = LinkedHashMap(this)\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs from the given map.\n *\n */\n@SinceKotlin("1.1")\npublic fun <K, V,
M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M =\n    destination.apply {
putAll(this@toMap) }\n\n/**\n * Creates a new read-only map by replacing or adding an entry to this map from a
given key-value [pair].\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n * The
[pair] is iterated in the end if it has a unique key.\n *\n */\npublic operator fun <K, V> Map<out K, V>.plus(pair:
Pair<K, V>): Map<K, V> =\n    if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first,
pair.second) }\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from a given
collection of key-value [pairs].\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.\n *\n */\npublic operator fun <K,
V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =\n    if (this.isEmpty()) pairs.toMap() else
LinkedHashMap(this).apply { putAll(pairs) }\n\n/**\n * Creates a new read-only map by replacing or adding entries
to this map from a given array of key-value [pairs].\n *\n * The returned map preserves the entry iteration order of

```

the original map.

- * Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.
- * `public operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> =` if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }
- * Creates a new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs].
- * The returned map preserves the entry iteration order of the original map.
- * Those [pairs] with unique keys are iterated in the end in the order of [pairs] sequence.
- * `public operator fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =` LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()
- * Creates a new read-only map by replacing or adding entries to this map from another [map].
- * The returned map preserves the entry iteration order of the original map.
- * Those entries of another [map] that are missing in this map are iterated in the end in the order of that [map].
- * `public operator fun <K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =` LinkedHashMap(this).apply { putAll(map) }
- * Appends or replaces the given [pair] in this mutable map.
- * `@kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {` put(pair.first, pair.second)
- * Appends or replaces all pairs from the given collection of [pairs] in this mutable map.
- * `@kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {` putAll(pairs)
- * Appends or replaces all pairs from the given array of [pairs] in this mutable map.
- * `@kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Array<out Pair<K, V>>) {` putAll(pairs)
- * Appends or replaces all pairs from the given sequence of [pairs] in this mutable map.
- * `@kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {` putAll(pairs)
- * Appends or replaces all entries from the given [map] in this mutable map.
- * `@kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {` putAll(map)
- * Returns a map containing all entries of the original map except the entry with the given [key].
- * The returned map preserves the entry iteration order of the original map.
- * `@SinceKotlin("1.1") public operator fun <K, V> Map<out K, V>.minus(key: K): Map<K, V> =` this.toMutableMap().apply { minusAssign(key) }.optimizeReadOnlyMap()
- * Returns a map containing all entries of the original map except those entries
- * the keys of which are contained in the given [keys] collection.
- * The returned map preserves the entry iteration order of the original map.
- * `@SinceKotlin("1.1") public operator fun <K, V> Map<out K, V>.minus(keys: Iterable<K>): Map<K, V> =` this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()
- * Returns a map containing all entries of the original map except those entries
- * the keys of which are contained in the given [keys] array.
- * The returned map preserves the entry iteration order of the original map.
- * `@SinceKotlin("1.1") public operator fun <K, V> Map<out K, V>.minus(keys: Array<out K>): Map<K, V> =` this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()
- * Returns a map containing all entries of the original map except those entries
- * the keys of which are contained in the given [keys] sequence.
- * The returned map preserves the entry iteration order of the original map.
- * `@SinceKotlin("1.1") public operator fun <K, V> Map<out K, V>.minus(keys: Sequence<K>): Map<K, V> =` this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()
- * Removes the entry with the given [key] from this mutable map.
- * `@SinceKotlin("1.1") @kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<K, V>.minusAssign(key: K) {` remove(key)
- * Removes all entries the keys of which are contained in the given [keys] collection from this mutable map.
- * `@SinceKotlin("1.1") @kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Iterable<K>) {` this.keys.removeAll(keys)
- * Removes all entries the keys of which are contained in the given [keys] array from this mutable map.
- * `@SinceKotlin("1.1") @kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Array<out K>) {` this.keys.removeAll(keys)
- * Removes all entries from the keys of which are contained in the given [keys] sequence from this mutable map.
- * `@SinceKotlin("1.1") @kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<K,`

```

V>.minusAssign(keys: Sequence<K>) {
    this.keys.removeAll(keys)
}
// do not expose for now
@PublishedApi
internal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size) {
    0 -> emptyMap()
    1 -> toSingletonMapOrSelf()
    else -> this
}
"/**
 * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SetsKt")
@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)
package kotlin.collections
import kotlin.contracts.*
internal object
EmptySet : Set<Nothing>, Serializable {
    private const val serialVersionUID: Long =
3406603774387020532
    override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()
    override fun hashCode(): Int = 0
    override fun toString(): String = "[]"
    override val size: Int get() = 0
    override fun isEmpty(): Boolean = true
    override fun contains(element: Nothing): Boolean = false
    override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()
    override fun iterator():
Iterator<Nothing> = EmptyIterator
    private fun readResolve(): Any = EmptySet
}
/**
 * Returns an
empty read-only set. The returned set is serializable (JVM).
 */
@sample
samples.collections.Collections.Sets.emptyReadOnlySet
/**
 * Returns a new read-only set with the given elements.
 * Elements of the set are iterated in the
order they were specified.
 * The returned set is serializable (JVM).
 */
@sample
samples.collections.Collections.Sets.readOnlySet
/**
 * Returns an empty read-only set. The returned set is
serializable (JVM).
 */
@sample
samples.collections.Collections.Sets.emptyReadOnlySet
/**
 * Returns an empty
new [MutableSet].
 * The returned set preserves the element iteration order.
 */
@sample
samples.collections.Collections.Sets.emptyMutableSet
/**
 * Returns a new [MutableSet] with the given elements.
 * Elements of the set are
iterated in the order they were specified.
 */
@sample
samples.collections.Collections.Sets.mutableSet
/**
 * Returns an empty new [HashSet].
 */
@sample
samples.collections.Collections.Sets.emptyHashSet
/**
 * Returns a new [HashSet] with the given elements.
 */
@sample
samples.collections.Collections.Sets.emptyHashSet
/**
 * Returns a new [LinkedHashSet] with the given elements.
 * Elements of the set are
iterated in the order they were specified.
 */
@sample
samples.collections.Collections.Sets.emptyLinkedHashSet
/**
 * Returns a new read-only set either
with single given element, if it is not null, or empty set if the element is null.
 * The returned set is serializable
(JVM).
 */
@sample
samples.collections.Collections.Sets.setOfNotNull
/**
 * Returns
a new read-only set only with those given elements, that are not null.
 * Elements of the set are iterated in the order
they were specified.
 * The returned set is serializable (JVM).
 */
@sample
samples.collections.Collections.Sets.setOfNotNull
/**
 * Returns a new read-only [Set] by populating a [MutableSet] using the given [builderAction]
 * and returning a read-
only set with the same elements.
 * The set passed as a receiver to the [builderAction] is valid only inside that
function.
 * Using it outside of the function produces an unspecified behavior.
 */
@sample
samples.collections.Collections.Sets.setOfNotNull
/**
 * Returns a new read-only set either
with single given element, if it is not null, or empty set if the element is null.
 * The returned set is serializable
(JVM).
 */
@sample
samples.collections.Collections.Sets.setOfNotNull

```

```

@sample samples.collections.Builders.Sets.buildSetSample\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildSet(@BuilderInference builderAction: MutableSet<E>().) -> Unit): Set<E> {\n  contract {
  callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n  return
buildSetInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <E> buildSetInternal(builderAction: MutableSet<E>().) -> Unit): Set<E>\n\n/**\n * Builds a
new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n * and returning a read-only set
with the same elements.\n * The set passed as a receiver to the [builderAction] is valid only inside that
function.\n * Using it outside of the function produces an unspecified behavior.\n * [capacity] is used to hint the
expected number of elements added in the [builderAction].\n * Elements of the set are iterated in the order they
were added by the [builderAction].\n * The returned set is serializable (JVM).\n * @throws
IllegalArgumentOutOfRangeException if the given [capacity] is negative.\n * @sample
samples.collections.Builders.Sets.buildSetSample\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <E> buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>().) -> Unit): Set<E> {\n
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n  return buildSetInternal(capacity,
builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline
fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>().) -> Unit): Set<E>\n\n/** Returns this Set
if it's not `null` and the empty set otherwise. *\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Set<T>?.orEmpty(): Set<T> = this ?: emptySet()\n\ninternal fun <T> Set<T>.optimizeReadOnlySet() = when (size)
{\n  0 -> emptySet()\n  1 -> setOf(iterator().next())\n  else -> this\n}\n","/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n@file:Suppress("PLATFORM_CLASS_MAPPED_TO_KOTLIN")\n\npackage kotlin.text\n\n/**\n * Parses the string as a signed [Byte]
number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n@SinceKotlin("1.1")\n\npublic fun String.toByteArrayOrNull(): Byte? = toByteOrNull(radix = 10)\n\n/**\n * Parses
the string as a signed [Byte] number and returns the result\n * or `null` if the string is not a valid representation of a
number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.\n *\n@SinceKotlin("1.1")\n\npublic fun String.toByteArrayOrNull(radix: Int): Byte? {\n  val int =
this.toIntOrNull(radix) ?: return null\n  if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null\n
return int.toByteArray()\n}\n\n/**\n * Parses the string as a [Short] number and returns the result\n * or `null` if the string
is not a valid representation of a number.\n *\n@SinceKotlin("1.1")\n\npublic fun String.toShortOrNull(): Short? =
toShortOrNull(radix = 10)\n\n/**\n * Parses the string as a [Short] number and returns the result\n * or `null` if the
string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.\n *\n@SinceKotlin("1.1")\n\npublic fun String.toShortOrNull(radix:
Int): Short? {\n  val int = this.toIntOrNull(radix) ?: return null\n  if (int < Short.MIN_VALUE || int >
Short.MAX_VALUE) return null\n  return int.toShort()\n}\n\n/**\n * Parses the string as an [Int] number and
returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n@SinceKotlin("1.1")\n\npublic fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)\n\n/**\n * Parses the
string as an [Int] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.1")\n\npublic fun String.toIntOrNull(radix: Int): Int? {\n  checkRadix(radix)\n\n  val length
= this.length\n  if (length == 0) return null\n\n  val start: Int\n  val isNegative: Boolean\n  val limit: Int\n  val
firstChar = this[0]\n  if (firstChar < '0') { // Possible leading sign\n    if (length == 1) return null // non-digit
(possible sign) only, no digits after\n    start = 1\n    if (firstChar == '-') {\n      isNegative = true\n
limit = Int.MIN_VALUE\n    } else if (firstChar == '+') {\n      isNegative = false\n      limit = -
Int.MAX_VALUE\n    } else\n      return null\n  } else {\n    start = 0\n    isNegative = false\n    limit

```



```

= -Int.MAX_VALUE\n } \n\n val limitForMaxRadix = (-Int.MAX_VALUE) / 36\n var limitBeforeMul =
limitForMaxRadix\n var result = 0\n for (i in start until length) {\n val digit = digitOf(this[i], radix)\n
if (digit < 0) return null\n if (result < limitBeforeMul) {\n if (limitBeforeMul == limitForMaxRadix) {\n
limitBeforeMul = limit / radix\n if (result < limitBeforeMul) {\n return null\n
}\n } else {\n return null\n }\n }\n result *= radix\n if (result < limit + digit)
return null\n result -= digit\n }\n return if (isNegative) result else -result\n} \n\n/**\n * Parses the string
as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*/\n@SinceKotlin("1.1")\npublic fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)\n\n/**\n * Parses
the string as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a
number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.\n */\n@SinceKotlin("1.1")\npublic fun String.toLongOrNull(radix: Int): Long? {\n
checkRadix(radix)\n val length = this.length\n if (length == 0) return null\n val start: Int\n val isNegative:
Boolean\n val limit: Long\n val firstChar = this[0]\n if (firstChar < '0') { // Possible leading sign\n if
(length == 1) return null // non-digit (possible sign) only, no digits after\n start = 1\n if (firstChar == '-')
{\n isNegative = true\n limit = Long.MIN_VALUE\n } else if (firstChar == '+') {\n
isNegative = false\n limit = -Long.MAX_VALUE\n } else\n return null\n } else {\n start =
0\n isNegative = false\n limit = -Long.MAX_VALUE\n }\n\n val limitForMaxRadix = (-
Long.MAX_VALUE) / 36\n var limitBeforeMul = limitForMaxRadix\n var result = 0L\n for (i in start until
length) {\n val digit = digitOf(this[i], radix)\n if (digit < 0) return null\n if (result < limitBeforeMul)
{\n if (limitBeforeMul == limitForMaxRadix) {\n limitBeforeMul = limit / radix\n if
(result < limitBeforeMul) {\n return null\n }\n } else {\n return null\n
}\n }\n result *= radix\n if (result < limit + digit) return null\n result -= digit\n }\n
return if (isNegative) result else -result\n}\n\ninternal fun numberFormatError(input: String): Nothing = throw
NumberFormatException("Invalid number format: '$input')\n", "*/\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.contracts.*\nimport
kotlin.jvm.JvmInline\nimport kotlin.math.*\n\n/**\n * Represents the amount of time one instant of time is away
from another instant.\n *\n * A negative duration is possible in a situation when the second instant is earlier than the
first one.\n *\n * The type can store duration values up to \u00b1146 years with nanosecond precision,\n * and up to
\u00b1146 million years with millisecond precision.\n * If a duration-returning operation provided in `kotlin.time`
produces a duration value that doesn't fit into the above range,\n * the returned `Duration` is infinite.\n *\n * An
infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.\n *\n * To construct a
duration use either the extension function [toDuration],\n * or the extension properties [hours], [minutes], [seconds],
and so on,\n * available on [Int], [Long], and [Double] numeric types.\n *\n * To get the value of this duration
expressed in a particular [duration units][DurationUnit]\n * use the functions [toInt], [toLong], and [toDouble]\n * or
the properties [inWholeHours], [inWholeMinutes], [inWholeSeconds], [inWholeNanoseconds], and so on.\n
*/\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\n@JvmInline\npublic value class
Duration internal constructor(private val rawValue: Long) : Comparable<Duration> {\n\n private val value: Long
get() = rawValue shr 1\n private inline val unitDiscriminator: Int get() = rawValue.toInt() and 1\n private fun
isInNanos() = unitDiscriminator == 0\n private fun isInMillis() = unitDiscriminator == 1\n private val
storageUnit get() = if (isInNanos()) DurationUnit.NANOSECONDS else DurationUnit.MILLISECONDS\n\n init
{\n if (durationAssertionsEnabled) {\n if (isInNanos()) {\n if (value !in -
MAX_NANOS..MAX_NANOS) throw AssertionError("$value ns is out of nanoseconds range")\n } else
{\n if (value !in -MAX_MILLIS..MAX_MILLIS) throw AssertionError("$value ms is out of milliseconds
range")\n if (value in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) throw
AssertionError("$value ms is denormalized")\n }\n }\n }\n\n companion object {\n /** The
duration equal to exactly 0 seconds. */\n public val ZERO: Duration = Duration(0L)\n\n /** The duration
whose value is positive infinity. It is useful for representing timeouts that should never expire. */\n public val

```

```

INFINITE: Duration = durationOfMillis(MAX_MILLIS)\n    internal val NEG_INFINITE: Duration =
durationOfMillis(-MAX_MILLIS)\n    /** Converts the given time duration [value] expressed in the specified
[sourceUnit] into the specified [targetUnit]. */\n    @ExperimentalTime\n    public fun convert(value: Double,
sourceUnit: DurationUnit, targetUnit: DurationUnit): Double =\n        convertDurationUnit(value, sourceUnit,
targetUnit)\n\n    // Duration construction extension properties in Duration companion scope\n\n    /** Returns a
[Duration] equal to this [Int] number of nanoseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val
Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n    /** Returns a [Duration] equal to this
[Long] number of nanoseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.nanoseconds
get() = toDuration(DurationUnit.NANOSECONDS)\n\n    /**\n    * Returns a [Duration] equal to this
[Double] number of nanoseconds.\n    *\n    * Depending on its magnitude, the value is rounded to an integer
number of nanoseconds or milliseconds.\n    *\n    * @throws IllegalArgumentException if this [Double]
value is `NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public inline val Double.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)\n\n    /** Returns a [Duration] equal to this [Int] number of
microseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Int.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n    /** Returns a [Duration] equal to this [Long] number of
microseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n    /**\n    * Returns a [Duration] equal to this [Double]
number of microseconds.\n    *\n    * Depending on its magnitude, the value is rounded to an integer number
of nanoseconds or milliseconds.\n    *\n    * @throws IllegalArgumentException if this [Double] value is
`NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public inline val Double.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n    /** Returns a [Duration] equal to this [Int] number of
milliseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Int.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)\n\n    /** Returns a [Duration] equal to this [Long] number of
milliseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)\n\n    /**\n    * Returns a [Duration] equal to this [Double]
number of milliseconds.\n    *\n    * Depending on its magnitude, the value is rounded to an integer number of
nanoseconds or milliseconds.\n    *\n    * @throws IllegalArgumentException if this [Double] value is
`NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public inline val Double.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)\n\n    /** Returns a [Duration] equal to this [Int] number of
seconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Int.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n    /** Returns a [Duration] equal to this [Long] number of seconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n    /**\n    * Returns a [Duration] equal to this [Double] number of
seconds.\n    *\n    * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or
milliseconds.\n    *\n    * @throws IllegalArgumentException if this [Double] value is `NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public inline val Double.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n    /** Returns a [Duration] equal to this [Int] number of minutes. */\n    @kotlin.internal.InlineOnly\n    public inline val Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n    /** Returns a [Duration] equal to this [Long] number of minutes. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n    /**\n    * Returns a
[Duration] equal to this [Double] number of minutes.\n    *\n    * Depending on its magnitude, the value is
rounded to an integer number of nanoseconds or milliseconds.\n    *\n    * @throws IllegalArgumentException
if this [Double] value is `NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public inline val Double.minutes
get() = toDuration(DurationUnit.MINUTES)\n\n    /** Returns a [Duration] equal to this [Int] number of hours.
*/\n    @kotlin.internal.InlineOnly\n    public inline val Int.hours get() = toDuration(DurationUnit.HOURS)\n\n    /** Returns a [Duration] equal to this [Long] number of hours. */\n    @kotlin.internal.InlineOnly\n    public
inline val Long.hours get() = toDuration(DurationUnit.HOURS)\n\n    /**\n    * Returns a [Duration] equal to
this [Double] number of hours.\n    *\n    * Depending on its magnitude, the value is rounded to an integer

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number of nanoseconds or milliseconds.\n      *\n      * @throws IllegalArgumentException if this [Double]
value is `NaN`.\n      *\n      @kotlin.internal.InlineOnly\n      public inline val Double.hours get() =
toDuration(DurationUnit.HOURS)\n\n      /** Returns a [Duration] equal to this [Int] number of days. *\n
@kotlin.internal.InlineOnly\n      public inline val Int.days get() = toDuration(DurationUnit.DAYS)\n\n      /**
Returns a [Duration] equal to this [Long] number of days. *\n      @kotlin.internal.InlineOnly\n      public inline
val Long.days get() = toDuration(DurationUnit.DAYS)\n\n      /**\n      * Returns a [Duration] equal to this
[Double] number of days.\n      *\n      * Depending on its magnitude, the value is rounded to an integer number
of nanoseconds or milliseconds.\n      *\n      * @throws IllegalArgumentException if this [Double] value is
`NaN`.\n      *\n      @kotlin.internal.InlineOnly\n      public inline val Double.days get() =
toDuration(DurationUnit.DAYS)\n\n      // deprecated static factory functions\n      /** Returns a [Duration]
representing the specified [value] number of nanoseconds. *\n      @SinceKotlin("1.5")\n
@ExperimentalTime\n      @Deprecated("Use 'Int.nanoseconds' extension property from Duration.Companion
instead.", ReplaceWith("value.nanoseconds", "kotlin.time.Duration.Companion.nanoseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n      public fun nanoseconds(value: Int): Duration =
value.toDuration(DurationUnit.NANOSECONDS)\n\n      /** Returns a [Duration] representing the specified
[value] number of nanoseconds. *\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n
@Deprecated("Use 'Long.nanoseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.nanoseconds", "kotlin.time.Duration.Companion.nanoseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n      public fun nanoseconds(value: Long): Duration =
value.toDuration(DurationUnit.NANOSECONDS)\n\n      /**\n      * Returns a [Duration] representing the
specified [value] number of nanoseconds.\n      *\n      * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n      *\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n
@Deprecated("Use 'Double.nanoseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.nanoseconds", "kotlin.time.Duration.Companion.nanoseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n      public fun nanoseconds(value: Double): Duration =
value.toDuration(DurationUnit.NANOSECONDS)\n\n      /** Returns a [Duration] representing the specified
[value] number of microseconds. *\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n
@Deprecated("Use 'Int.microseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n      public fun microseconds(value: Int): Duration =
value.toDuration(DurationUnit.MICROSECONDS)\n\n      /** Returns a [Duration] representing the specified
[value] number of microseconds.\n      *\n      * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n      *\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n
@Deprecated("Use 'Double.microseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n      public fun microseconds(value: Long): Duration =
value.toDuration(DurationUnit.MICROSECONDS)\n\n      /**\n      * Returns a [Duration] representing the
specified [value] number of microseconds.\n      *\n      * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n      *\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n
@Deprecated("Use 'Double.microseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n      public fun microseconds(value: Double): Duration =
value.toDuration(DurationUnit.MICROSECONDS)\n\n      /** Returns a [Duration] representing the specified
[value] number of milliseconds. *\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n
@Deprecated("Use 'Int.milliseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n      public fun milliseconds(value: Int): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n      /** Returns a [Duration] representing the specified
[value] number of milliseconds. *\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n

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@Deprecated("Use 'Long.milliseconds' extension property from Duration.Companion instead.\",
ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n    public fun milliseconds(value: Long): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n    /**\n        * Returns a [Duration] representing the
specified [value] number of milliseconds.\n        *\n        * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n        *\n        * @SinceKotlin("1.5")\n        * @ExperimentalTime\n
@Deprecated("Use 'Double.milliseconds' extension property from Duration.Companion instead.\",
ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n    public fun milliseconds(value: Double): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n    /** Returns a [Duration] representing the specified
[value] number of seconds. *\n        * @SinceKotlin("1.5")\n        * @ExperimentalTime\n
@Deprecated("Use 'Int.seconds' extension property from Duration.Companion instead.\", ReplaceWith("value.seconds",
"kotlin.time.Duration.Companion.seconds"))\n    @DeprecatedSinceKotlin(warningSince = "1.6")\n    public
fun seconds(value: Int): Duration = value.toDuration(DurationUnit.SECONDS)\n\n    /** Returns a [Duration]
representing the specified [value] number of seconds. *\n        * @SinceKotlin("1.5")\n        * @ExperimentalTime\n
@Deprecated("Use 'Long.seconds' extension property from Duration.Companion instead.\",
ReplaceWith("value.seconds", "kotlin.time.Duration.Companion.seconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n    public fun seconds(value: Long): Duration =
value.toDuration(DurationUnit.SECONDS)\n\n    /**\n        * Returns a [Duration] representing the specified
[value] number of seconds.\n        *\n        * @throws IllegalArgumentException if the provided `Double` [value] is
`NaN`.\n        *\n        * @SinceKotlin("1.5")\n        * @ExperimentalTime\n
@Deprecated("Use 'Double.seconds' extension property from Duration.Companion instead.\", ReplaceWith("value.seconds",
"kotlin.time.Duration.Companion.seconds"))\n    @DeprecatedSinceKotlin(warningSince = "1.6")\n    public
fun seconds(value: Double): Duration = value.toDuration(DurationUnit.SECONDS)\n\n    /** Returns a
[Duration] representing the specified [value] number of minutes. *\n        * @SinceKotlin("1.5")\n
@ExperimentalTime\n
@Deprecated("Use 'Int.minutes' extension property from Duration.Companion
instead.\", ReplaceWith("value.minutes", "kotlin.time.Duration.Companion.minutes"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n    public fun minutes(value: Int): Duration =
value.toDuration(DurationUnit.MINUTES)\n\n    /** Returns a [Duration] representing the specified [value]
number of minutes. *\n        * @SinceKotlin("1.5")\n        * @ExperimentalTime\n
@Deprecated("Use 'Long.minutes' extension property from Duration.Companion instead.\", ReplaceWith("value.minutes",
"kotlin.time.Duration.Companion.minutes"))\n    @DeprecatedSinceKotlin(warningSince = "1.6")\n    public
fun minutes(value: Long): Duration = value.toDuration(DurationUnit.MINUTES)\n\n    /**\n        * Returns a
[Duration] representing the specified [value] number of minutes.\n        *\n        * @throws
IllegalArgumentException if the provided `Double` [value] is `NaN`.\n        *\n        * @SinceKotlin("1.5")\n
@ExperimentalTime\n
@Deprecated("Use 'Double.minutes' extension property from Duration.Companion
instead.\", ReplaceWith("value.minutes", "kotlin.time.Duration.Companion.minutes"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n    public fun minutes(value: Double): Duration =
value.toDuration(DurationUnit.MINUTES)\n\n    /** Returns a [Duration] representing the specified [value]
number of hours. *\n        * @SinceKotlin("1.5")\n        * @ExperimentalTime\n
@Deprecated("Use 'Int.hours'
extension property from Duration.Companion instead.\", ReplaceWith("value.hours",
"kotlin.time.Duration.Companion.hours"))\n    @DeprecatedSinceKotlin(warningSince = "1.6")\n    public
fun hours(value: Int): Duration = value.toDuration(DurationUnit.HOURS)\n\n    /** Returns a [Duration]
representing the specified [value] number of hours. *\n        * @SinceKotlin("1.5")\n        * @ExperimentalTime\n
@Deprecated("Use 'Long.hours' extension property from Duration.Companion instead.\",
ReplaceWith("value.hours", "kotlin.time.Duration.Companion.hours"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n    public fun hours(value: Long): Duration =
value.toDuration(DurationUnit.HOURS)\n\n    /**\n        * Returns a [Duration] representing the specified

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[value] number of hours.\n      *\n      * @throws IllegalArgumentException if the provided `Double` [value] is
`NaN`.\n      *\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n      @Deprecated("Use 'Double.hours'
extension property from Duration.Companion instead.", ReplaceWith("value.hours",
"kotlin.time.Duration.Companion.hours"))\n      @DeprecatedSinceKotlin(warningSince = "1.6")\n      public
fun hours(value: Double): Duration = value.toDuration(DurationUnit.HOURS)\n\n      /** Returns a [Duration]
representing the specified [value] number of days. *\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n
@Deprecated("Use 'Int.days' extension property from Duration.Companion instead.", ReplaceWith("value.days",
"kotlin.time.Duration.Companion.days"))\n      @DeprecatedSinceKotlin(warningSince = "1.6")\n      public
fun days(value: Int): Duration = value.toDuration(DurationUnit.DAYS)\n\n      /** Returns a [Duration]
representing the specified [value] number of days. *\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n
@Deprecated("Use 'Long.days' extension property from Duration.Companion instead.",
ReplaceWith("value.days", "kotlin.time.Duration.Companion.days"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n      public fun days(value: Long): Duration =
value.toDuration(DurationUnit.DAYS)\n\n      /**\n      * Returns a [Duration] representing the specified [value]
number of days.\n      *\n      * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n
      *\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n      @Deprecated("Use 'Double.days' extension
property from Duration.Companion instead.", ReplaceWith("value.days",
"kotlin.time.Duration.Companion.days"))\n      @DeprecatedSinceKotlin(warningSince = "1.6")\n      public
fun days(value: Double): Duration = value.toDuration(DurationUnit.DAYS)\n\n      /**\n      * Parses a string that
represents a duration and returns the parsed [Duration] value.\n      *\n      * The following formats are
accepted:\n      *\n      * - ISO-8601 Duration format, e.g. `P1DT2H3M4.058S`, see [toIsoString] and
[parseIsoString].\n      * - The format of string returned by the default [Duration.toString] and `toString` in a
specific unit,\n      * e.g. `10s`, `1h 30m` or `-(1h 30m)`.\n      *\n      * @throws IllegalArgumentException if
the string doesn't represent a duration in any of the supported formats.\n      * @sample
samples.time.Durations.parse\n      *\n      public fun parse(value: String): Duration = try {\n
parseDuration(value, strictIso = false)\n      } catch (e: IllegalArgumentException) {\n      throw
IllegalArgumentException("Invalid duration string format: '$value'.", e)\n      }\n\n      /**\n      * Parses a
string that represents a duration in ISO-8601 format and returns the parsed [Duration] value.\n      *\n      *
@throws IllegalArgumentException if the string doesn't represent a duration in ISO-8601 format.\n      * @sample
samples.time.Durations.parseIsoString\n      *\n      public fun parseIsoString(value: String): Duration = try {\n
parseDuration(value, strictIso = true)\n      } catch (e: IllegalArgumentException) {\n      throw
IllegalArgumentException("Invalid ISO duration string format: '$value'.", e)\n      }\n\n      /**\n      * Parses a
string that represents a duration and returns the parsed [Duration] value,\n      * or `null` if the string doesn't
represent a duration in any of the supported formats.\n      *\n      * The following formats are accepted:\n
*\n      * - ISO-8601 Duration format, e.g. `P1DT2H3M4.058S`, see [toIsoString] and [parseIsoString].\n      * -
The format of string returned by the default [Duration.toString] and `toString` in a specific unit,\n      * e.g. `10s`,
`1h 30m` or `-(1h 30m)`.\n      * @sample samples.time.Durations.parse\n      *\n      public fun
parseOrNull(value: String): Duration? = try {\n      parseDuration(value, strictIso = false)\n      } catch (e:
IllegalArgumentException) {\n      null\n      }\n\n      /**\n      * Parses a string that represents a duration in
ISO-8601 format and returns the parsed [Duration] value,\n      * or `null` if the string doesn't represent a duration
in ISO-8601 format.\n      * @sample samples.time.Durations.parseIsoString\n      *\n      public fun
parseIsoStringOrNull(value: String): Duration? = try {\n      parseDuration(value, strictIso = true)\n      } catch
(e: IllegalArgumentException) {\n      null\n      }\n      }\n\n      // arithmetic operators\n\n      /** Returns the
negative of this value. *\n      public operator fun unaryMinus(): Duration = durationOf(-value,
unitDiscriminator)\n\n      /**\n      * Returns a duration whose value is the sum of this and [other] duration values.\n
*\n      * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n
* e.g. when adding infinite durations of different sign.\n      *\n      public operator fun plus(other: Duration):
Duration {\n      when {\n      this.isInfinite() -> {\n      if (other.isFinite() || (this.rawValue xor

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other.rawValue >= 0))\n                return this\n                else\n                throw
IllegalArgumentException("Summing infinite durations of different signs yields an undefined result.")\n    }\n    other.isInfinite() -> return other\n    }\n    return when {\n        this.unitDiscriminator ==
other.unitDiscriminator -> {\n        val result = this.value + other.value // never overflows long, but can
overflow long63\n        when {\n            isInNanos() ->\n            durationOfNanosNormalized(result)\n            else ->\n            durationOfMillisNormalized(result)\n        }\n        }\n        this.isInMillis() ->\n        addValuesMixedRanges(this.value, other.value)\n    else ->\n        addValuesMixedRanges(other.value, this.value)\n    }\n    }\n    private fun
addValuesMixedRanges(thisMillis: Long, otherNanos: Long): Duration {\n        val otherMillis =
nanosToMillis(otherNanos)\n        val resultMillis = thisMillis + otherMillis\n        return if (resultMillis in -
MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n            val otherNanoRemainder = otherNanos -
millisToNanos(otherMillis)\n            durationOfNanos(millisToNanos(resultMillis) + otherNanoRemainder)\n        }
else {\n            durationOfMillis(resultMillis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n        }\n    }\n    /**\n    * Returns a duration whose value is the difference between this and [other] duration values.\n    * @throws
IllegalArgumentException if the operation results in an undefined value for the given arguments,\n    * e.g. when
subtracting infinite durations of the same sign.\n    */\n    public operator fun minus(other: Duration): Duration =
this + (-other)\n    /**\n    * Returns a duration whose value is this duration value multiplied by the given [scale]
number.\n    * @throws IllegalArgumentException if the operation results in an undefined value for the given
arguments,\n    * e.g. when multiplying an infinite duration by zero.\n    */\n    public operator fun times(scale: Int):
Duration {\n        if (isInfinite()) {\n            return when {\n                scale == 0 -> throw
IllegalArgumentException("Multiplying infinite duration by zero yields an undefined result.")\n                scale > 0
-> this\n                else -> -this\n            }\n        }\n        if (scale == 0) return ZERO\n        val value = value\n
val result = value * scale\n        return if (isInNanos()) {\n            if (value in (MAX_NANOS /
Int.MIN_VALUE)..(-MAX_NANOS / Int.MIN_VALUE)) {\n                // can't overflow nanos range for any
scale\n                durationOfNanos(result)\n            } else {\n                if (result / scale == value) {\n
durationOfNanosNormalized(result)\n                } else {\n                    val millis = nanosToMillis(value)\n
val remNanos = value - millisToNanos(millis)\n                    val resultMillis = millis * scale\n                    val
totalMillis = resultMillis + nanosToMillis(remNanos * scale)\n                    if (resultMillis / scale == millis &&
totalMillis xor resultMillis >= 0) {\n                        durationOfMillis(totalMillis.coerceIn(-
MAX_MILLIS..MAX_MILLIS))\n                    } else {\n                        if (value.sign * scale.sign > 0) INFINITE
else NEG_INFINITE\n                    }\n                }\n            } else {\n                if (result / scale == value) {\n
durationOfMillis(result.coerceIn(-MAX_MILLIS..MAX_MILLIS))\n                } else {\n                    if (value.sign
* scale.sign > 0) INFINITE else NEG_INFINITE\n                }\n            }\n        }\n    }\n    /**\n    * Returns a duration whose
value is this duration value multiplied by the given [scale] number.\n    * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n    * e.g. when
multiplying an infinite duration by zero.\n    */\n    public operator fun times(scale: Double): Duration {\n        val
intScale = scale.roundToInt()\n        if (intScale.toDouble() == scale) {\n            return times(intScale)\n        }\n        val unit = storageUnit\n        val result = toDouble(unit) * scale\n        return result.toDuration(unit)\n    }\n    /**\n    * Returns a duration whose value is this duration value divided by the given [scale] number.\n    * @throws
IllegalArgumentException if the operation results in an undefined value for the given arguments,\n    * e.g. when
dividing zero duration by zero.\n    */\n    public operator fun div(scale: Int): Duration {\n        if (scale ==
0) {\n            return when {\n                isPositive() -> INFINITE\n                isNegative() -> NEG_INFINITE\n
            }\n        } else -> throw IllegalArgumentException("Dividing zero duration by zero yields an undefined result.")\n    }\n    }\n    if (isInNanos()) {\n        return durationOfNanos(value / scale)\n    } else {\n        if
(isInfinite())\n        return this * scale.sign\n        val result = value / scale\n        if (result in -
MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n            val rem = millisToNanos(value - (result *
scale)) / scale\n            return durationOfNanos(millisToNanos(result) + rem)\n        }\n        return

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durationOfMillis(result)\n    }\n }\n\n /**\n  * Returns a duration whose value is this duration value divided
by the given [scale] number.\n  *\n  * @throws IllegalArgumentException if the operation results in an
undefined value for the given arguments,\n  * e.g. when dividing an infinite duration by infinity or zero duration
by zero.\n  */\n public operator fun div(scale: Double): Duration {\n    val intScale = scale.roundToInt()\n    if (intScale.toDouble() == scale && intScale != 0) {\n        return div(intScale)\n    }\n    val unit =
storageUnit\n    val result = toDouble(unit) / scale\n    return result.toDuration(unit)\n }\n\n /** Returns a
number that is the ratio of this and [other] duration values. *\n  public operator fun div(other: Duration): Double
{\n    val coarserUnit = maxOf(this.storageUnit, other.storageUnit)\n    return this.toDouble(coarserUnit) /
other.toDouble(coarserUnit)\n }\n\n /** Returns true, if the duration value is less than zero. *\n  public fun
isNegative(): Boolean = rawValue < 0\n\n /** Returns true, if the duration value is greater than zero. *\n  public fun
isPositive(): Boolean = rawValue > 0\n\n /** Returns true, if the duration value is infinite. *\n  public fun
isInfinite(): Boolean = rawValue == INFINITE.rawValue || rawValue == NEG_INFINITE.rawValue\n\n /**
Returns true, if the duration value is finite. *\n  public fun isFinite(): Boolean = !isInfinite()\n\n /** Returns the
absolute value of this value. The returned value is always non-negative. *\n  public val absoluteValue: Duration
get() = if (isNegative()) -this else this\n\n override fun compareTo(other: Duration): Int {\n    val compareBits =
this.rawValue xor other.rawValue\n    if (compareBits < 0 || compareBits.toInt() and 1 == 0) // different signs or
same sign/same range\n        return this.rawValue.compareTo(other.rawValue) // same sign/different
ranges\n    val r = this.unitDiscriminator - other.unitDiscriminator // compare ranges\n    return if (isNegative())
-r else r\n }\n\n\n // splitting to components\n\n /**\n  * Splits this duration into days, hours, minutes,
seconds, and nanoseconds and executes the given [action] with these components.\n  * The result of [action] is
returned as the result of this function.\n  *\n  * - `nanoseconds` represents the whole number of nanoseconds in
this duration, and its absolute value is less than 1_000_000_000;\n  * - `seconds` represents the whole number of
seconds in this duration, and its absolute value is less than 60;\n  * - `minutes` represents the whole number of
minutes in this duration, and its absolute value is less than 60;\n  * - `hours` represents the whole number of hours
in this duration, and its absolute value is less than 24;\n  * - `days` represents the whole number of days in this
duration.\n  *\n  * Infinite durations are represented as either [Long.MAX_VALUE] days, or
[Long.MIN_VALUE] days (depending on the sign of infinity),\n  * and zeroes in the lower components.\n  *\n  public inline fun <T> toComponents(action: (days: Long, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -
> T): T {\n    contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n    return
action(inWholeDays, hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)\n }\n\n
/**\n  * Splits this duration into hours, minutes, seconds, and nanoseconds and executes the given [action] with
these components.\n  * The result of [action] is returned as the result of this function.\n  *\n  * - `nanoseconds`
represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n
* - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n
* - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;\n
* - `hours` represents the whole number of hours in this duration.\n  *\n  * Infinite durations are represented as
either [Long.MAX_VALUE] hours, or [Long.MIN_VALUE] hours (depending on the sign of infinity),\n  * and
zeroes in the lower components.\n  *\n  public inline fun <T> toComponents(action: (hours: Long, minutes: Int,
seconds: Int, nanoseconds: Int) -> T): T {\n    contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE)
}\n    return action(inWholeHours, minutesComponent, secondsComponent, nanosecondsComponent)\n }\n\n
/**\n  * Splits this duration into minutes, seconds, and nanoseconds and executes the given [action] with these
components.\n  * The result of [action] is returned as the result of this function.\n  *\n  * - `nanoseconds`
represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n
* - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n
* - `minutes` represents the whole number of minutes in this duration.\n  *\n  * Infinite durations are represented as
either [Long.MAX_VALUE] minutes, or [Long.MIN_VALUE] minutes (depending on the sign of infinity),\n  *
and zeroes in the lower components.\n  *\n  public inline fun <T> toComponents(action: (minutes: Long,
seconds: Int, nanoseconds: Int) -> T): T {\n    contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE)
}\n

```

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}\n    return action(inWholeMinutes, secondsComponent, nanosecondsComponent)\n }\n\n /**\n  * Splits
this duration into seconds, and nanoseconds and executes the given [action] with these components.\n  * The result
of [action] is returned as the result of this function.\n  *\n  * - `nanoseconds` represents the whole number of
nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n  * - `seconds` represents the
whole number of seconds in this duration.\n  *\n  * Infinite durations are represented as either
[Long.MAX_VALUE] seconds, or [Long.MIN_VALUE] seconds (depending on the sign of infinity),\n  * and
zero nanoseconds.\n  */\n public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T):
T {\n    contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n    return
action(inWholeSeconds, nanosecondsComponent)\n }\n\n @PublishedApi\n internal val hoursComponent:
Int\n    get() = if (isInfinite()) 0 else (inWholeHours % 24).toInt()\n\n @PublishedApi\n internal val
minutesComponent: Int\n    get() = if (isInfinite()) 0 else (inWholeMinutes % 60).toInt()\n\n @PublishedApi\n
internal val secondsComponent: Int\n    get() = if (isInfinite()) 0 else (inWholeSeconds % 60).toInt()\n\n
@PublishedApi\n internal val nanosecondsComponent: Int\n    get() = when {\n        isInfinite() -> 0\n
isInMillis() -> millisToNanos(value % 1_000).toInt()\n        else -> (value % 1_000_000_000).toInt()\n
}\n\n // conversion to units\n\n /**\n  * Returns the value of this duration expressed as a [Double] number of
the specified [unit].\n  *\n  * The operation may involve rounding when the result cannot be represented exactly
with a [Double] number.\n  *\n  * An infinite duration value is converted either to
[Double.POSITIVE_INFINITY] or [Double.NEGATIVE_INFINITY] depending on its sign.\n  */\n public fun
toDouble(unit: DurationUnit): Double {\n    return when (rawValue) {\n        INFINITE.rawValue ->
Double.POSITIVE_INFINITY\n        NEG_INFINITE.rawValue -> Double.NEGATIVE_INFINITY\n        else -> {\n
            // TODO: whether it's ok to convert to Double before scaling\n
convertDurationUnit(value.toDouble(), storageUnit, unit)\n        }\n    }\n\n /**\n  * Returns the value
of this duration expressed as a [Long] number of the specified [unit].\n  *\n  * If the result doesn't fit in the range
of [Long] type, it is coerced into that range:\n  * - [Long.MIN_VALUE] is returned if it's less than
`Long.MIN_VALUE`,\n  * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n  *\n  * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on
its sign.\n  */\n public fun toLong(unit: DurationUnit): Long {\n    return when (rawValue) {\n
        INFINITE.rawValue -> Long.MAX_VALUE\n        NEG_INFINITE.rawValue -> Long.MIN_VALUE\n        else -> convertDurationUnit(value, storageUnit, unit)\n    }\n }\n\n /**\n  * Returns the value of this
duration expressed as an [Int] number of the specified [unit].\n  *\n  * If the result doesn't fit in the range of [Int]
type, it is coerced into that range:\n  * - [Int.MIN_VALUE] is returned if it's less than `Int.MIN_VALUE`,\n  * -
[Int.MAX_VALUE] is returned if it's greater than `Int.MAX_VALUE`.\n  *\n  * An infinite duration value is
converted either to [Int.MAX_VALUE] or [Int.MIN_VALUE] depending on its sign.\n  */\n public fun
toInt(unit: DurationUnit): Int =\n    toLong(unit).coerceIn(Int.MIN_VALUE.toInt(),
Int.MAX_VALUE.toInt()).toInt()\n\n /** The value of this duration expressed as a [Double] number of days.
*/\n @ExperimentalTime\n @Deprecated("Use inWholeDays property instead or convert toDouble(DAYS) if a
double value is required.", ReplaceWith("toDouble(DurationUnit.DAYS)"))\n public val inDays: Double get() =
toDouble(DurationUnit.DAYS)\n\n /** The value of this duration expressed as a [Double] number of hours. */\n
@ExperimentalTime\n @Deprecated("Use inWholeHours property instead or convert toDouble(HOURS) if a
double value is required.", ReplaceWith("toDouble(DurationUnit.HOURS)"))\n public val inHours: Double
get() = toDouble(DurationUnit.HOURS)\n\n /** The value of this duration expressed as a [Double] number of
minutes. */\n @ExperimentalTime\n @Deprecated("Use inWholeMinutes property instead or convert
toDouble(MINUTES) if a double value is required.", ReplaceWith("toDouble(DurationUnit.MINUTES)"))\n
public val inMinutes: Double get() = toDouble(DurationUnit.MINUTES)\n\n /** The value of this duration
expressed as a [Double] number of seconds. */\n @ExperimentalTime\n @Deprecated("Use inWholeSeconds
property instead or convert toDouble(SECONDS) if a double value is required.",
ReplaceWith("toDouble(DurationUnit.SECONDS)"))\n public val inSeconds: Double get() =
toDouble(DurationUnit.SECONDS)\n\n /** The value of this duration expressed as a [Double] number of

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milliseconds. */n @ExperimentalTime\n @Deprecated("\Use inWholeMilliseconds property instead or convert
toDouble(MILLISECONDS) if a double value is required."),
ReplaceWith("\toDouble(DurationUnit.MILLISECONDS)")\n public val inMilliseconds: Double get() =
toDouble(DurationUnit.MILLISECONDS)\n\n /** The value of this duration expressed as a [Double] number of
microseconds. */n @ExperimentalTime\n @Deprecated("\Use inWholeMicroseconds property instead or
convert toDouble(MICROSECONDS) if a double value is required."),
ReplaceWith("\toDouble(DurationUnit.MICROSECONDS)")\n public val inMicroseconds: Double get() =
toDouble(DurationUnit.MICROSECONDS)\n\n /** The value of this duration expressed as a [Double] number of
nanoseconds. */n @ExperimentalTime\n @Deprecated("\Use inWholeNanoseconds property instead or convert
toDouble(NANOSECONDS) if a double value is required."),
ReplaceWith("\toDouble(DurationUnit.NANOSECONDS)")\n public val inNanoseconds: Double get() =
toDouble(DurationUnit.NANOSECONDS)\n\n\n /**\n * The value of this duration expressed as a [Long]
number of days.\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n */n public val inWholeDays: Long\n get() =
toLong(DurationUnit.DAYS)\n\n\n /**\n * The value of this duration expressed as a [Long] number of hours.\n
*\n * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending
on its sign.\n */n public val inWholeHours: Long\n get() = toLong(DurationUnit.HOURS)\n\n\n /**\n *
The value of this duration expressed as a [Long] number of minutes.\n * An infinite duration value is
converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n */n public val
inWholeMinutes: Long\n get() = toLong(DurationUnit.MINUTES)\n\n\n /**\n * The value of this duration
expressed as a [Long] number of seconds.\n * An infinite duration value is converted either to
[Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n */n public val inWholeSeconds:
Long\n get() = toLong(DurationUnit.SECONDS)\n\n\n /**\n * The value of this duration expressed as a
[Long] number of milliseconds.\n * An infinite duration value is converted either to [Long.MAX_VALUE]
or [Long.MIN_VALUE] depending on its sign.\n */n public val inWholeMilliseconds: Long\n get() {\n
return if (isInMillis() && isFinite()) value else toLong(DurationUnit.MILLISECONDS)\n } \n\n\n /**\n *
The value of this duration expressed as a [Long] number of microseconds.\n * If the result doesn't fit in the
range of [Long] type, it is coerced into that range:\n * - [Long.MIN_VALUE] is returned if it's less than
`Long.MIN_VALUE`,\n * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n * An
infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on
its sign.\n */n public val inWholeMicroseconds: Long\n get() =
toLong(DurationUnit.MICROSECONDS)\n\n\n /**\n * The value of this duration expressed as a [Long] number
of nanoseconds.\n * If the result doesn't fit in the range of [Long] type, it is coerced into that range:\n
* - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n * - [Long.MAX_VALUE] is returned
if it's greater than `Long.MAX_VALUE`.\n * An infinite duration value is converted either to
[Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n */n public val inWholeNanoseconds:
Long\n get() {\n val value = value\n return when {\n isInNanos() -> value\n
value > Long.MAX_VALUE / NANOS_IN_MILLIS -> Long.MAX_VALUE\n value <
Long.MIN_VALUE / NANOS_IN_MILLIS -> Long.MIN_VALUE\n else -> millisToNanos(value)\n
}\n }\n\n // shortcuts\n\n /**\n * Returns the value of this duration expressed as a [Long] number of
nanoseconds.\n * If the value doesn't fit in the range of [Long] type, it is coerced into that range, see the
conversion [Double.toLong] for details.\n * The range of durations that can be expressed as a `Long`
number of nanoseconds is approximately \u00b1292 years.\n */n @ExperimentalTime\n @Deprecated("\Use
inWholeNanoseconds property instead.", ReplaceWith("\this.inWholeNanoseconds"))\n public fun
toLongNanoseconds(): Long = inWholeNanoseconds\n\n\n /**\n * Returns the value of this duration expressed as
a [Long] number of milliseconds.\n * The value is coerced to the range of [Long] type, if it doesn't fit in
that range, see the conversion [Double.toLong] for details.\n * The range of durations that can be expressed
as a `Long` number of milliseconds is approximately \u00b1292 million years.\n */n @ExperimentalTime\n

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@Deprecated("Use inWholeMilliseconds property instead.", ReplaceWith("this.inWholeMilliseconds"))
public fun toLongMilliseconds(): Long = inWholeMilliseconds

/**
 * Returns a string representation of this duration value expressed as a combination of numeric components, each in its own unit.
 * Each component is a number followed by the unit abbreviated name: `d`, `h`, `m`, `s`, `5h`, `1d 12h`, `1h 0m 30.340s`.
 * The last component, usually seconds, can be a number with a fractional part.
 * If the duration is less than a second, it is represented as a single number with one of sub-second units: `ms` (milliseconds), `us` (microseconds), or `ns` (nanoseconds): `140.884ms`, `500us`, `24ns`.
 * A negative duration is prefixed with `-` sign and, if it consists of multiple components, surrounded with parentheses:
 * `-12m` and `-(1h 30m)`.
 * Special cases:
 * - an infinite duration is formatted as `"Infinity"` or `"-Infinity"` without a unit.
 * It's recommended to use [toIsoString] that uses more strict ISO-8601 format instead of this `toString` when you want to convert a duration to a string in cases of serialization, interchange, etc.
 * @sample samples.time.Durations.toStringDefault
 */
@override fun toString(): String = when (rawValue) {
    0L -> "0s"
    INFINITE.rawValue -> "Infinity"
    NEG_INFINITE.rawValue -> "-Infinity"
    else -> {
        val isNegative = isNegative()
        buildString {
            if (isNegative) append('-')
            absoluteValue.toComponents { days, hours, minutes, seconds, nanoseconds ->
                val hasDays = days != 0L
                val hasHours = hours != 0L
                val hasMinutes = minutes != 0L
                val hasSeconds = seconds != 0 || nanoseconds != 0L
                var components = 0
                if (hasDays) {
                    append(days).append('d')
                    components++
                }
                if (hasHours || (hasDays && (hasMinutes || hasSeconds))) {
                    if (components++ > 0) append(' ')
                    append(hours).append('h')
                }
                if (hasMinutes || (hasSeconds && (hasHours || hasDays))) {
                    if (components++ > 0) append(' ')
                    append(minutes).append('m')
                }
                if (hasSeconds) {
                    if (components++ > 0) append(' ')
                    when {
                        seconds != 0 || hasDays || hasHours || hasMinutes ->
                            appendFractional(seconds, nanoseconds, 9, "s", isoZeroes = false)
                        nanoseconds >= 1_000_000 ->
                            appendFractional(nanoseconds / 1_000_000, nanoseconds % 1_000_000, 6, "ms", isoZeroes = false)
                        nanoseconds >= 1_000 ->
                            appendFractional(nanoseconds / 1_000, nanoseconds % 1_000, 3, "us", isoZeroes = false)
                    } else ->
                        append(nanoseconds).append("ns")
                }
            }
            if (isNegative && components > 1) insert(1, '(').append(')')
        }
        private fun StringBuilder.appendFractional(whole: Int, fractional: Int, fractionalSize: Int, unit: String, isoZeroes: Boolean) {
            append(whole)
            if (fractional != 0) {
                append('.')
                val fracString = fractional.toString().padStart(fractionalSize, '0')
                val nonZeroDigits = fracString.indexOfLast { it != '0' } + 1
                when {
                    !isoZeroes && nonZeroDigits < 3 -> appendRange(fracString, 0, nonZeroDigits)
                    else -> appendRange(fracString, 0, ((nonZeroDigits + 2) / 3) * 3)
                }
                append(unit)
            }
        }
    }
}

/**
 * Returns a string representation of this duration value expressed in the given [unit] and formatted with the specified [decimals] number of digits after decimal point.
 * Special cases:
 * - an infinite duration is formatted as `"Infinity"` or `"-Infinity"` without a unit.
 * @param decimals the number of digits after decimal point to show. The value must be non-negative.
 * No more than 12 decimals will be shown, even if a larger number is requested.
 * @return the value of duration in the specified [unit] followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.
 * @throws IllegalArgumentException if [decimals] is less than zero.
 * @sample samples.time.Durations.toStringDecimals
 */
public fun toString(unit: DurationUnit, decimals: Int = 0): String {
    require(decimals >= 0) { "decimals must be not negative, but was $decimals" }
    val number = toDouble(unit)
    if (number.isInfinite()) return number.toString()
    return formatToExactDecimals(number, decimals.coerceAtMost(12)) + unit.shortName()
}

/**
 * Returns an ISO-8601 based string representation of this duration.
 * The returned value is presented in the format `PTm>s.fS`, where `h`, `m`, `s` are the integer components of this duration (see [toComponents]) and `f` is a fractional part of second. Depending on the roundness of the value the fractional part can be formatted with either 0, 3, 6, or 9 decimal
 */

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digits.\n * \n * The infinite duration is represented as `PT999999999999H` which is larger than any
possible finite duration in Kotlin.\n * \n * Negative durations are indicated with the sign `-` in the beginning of
the returned string, for example, `-PT5M30S`.\n * \n * @sample samples.time.Durations.toIsoString\n
*\n public fun toIsoString(): String = buildString {\n if (isNegative()) append('-')\n append("PT")\n
this@Duration.absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->\n
@Suppress("NAME_SHADOWING")\n var hours = hours\n if (isInfinite()) {\n // use large
enough value instead of Long.MAX_VALUE\n hours = 9_999_999_999_999\n }\n val
hasHours = hours != 0L\n val hasSeconds = seconds != 0 || nanoseconds != 0\n val hasMinutes =
minutes != 0 || (hasSeconds && hasHours)\n if (hasHours) {\n append(hours).append('H')\n
}\n if (hasMinutes) {\n append(minutes).append('M')\n }\n if (hasSeconds ||
(!hasHours && !hasMinutes)) {\n appendFractional(seconds, nanoseconds, 9, "S", isoZeroes = true)\n
}\n }\n }\n }\n\n// constructing from number of units\n// extension functions\n\n/** Returns a [Duration]
equal to this [Int] number of the specified [unit].
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\npublic fun Int.toDuration(unit:
DurationUnit): Duration {\n return if (unit <= DurationUnit.SECONDS) {\n
durationOfNanos(convertDurationUnitOverflow(this.toLong(), unit, DurationUnit.NANOSECONDS))\n } else{\n
toLong().toDuration(unit)\n }\n\n/** Returns a [Duration] equal to this [Long] number of the specified [unit].
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\npublic fun Long.toDuration(unit:
DurationUnit): Duration {\n val maxNsInUnit = convertDurationUnitOverflow(MAX_NANOS,
DurationUnit.NANOSECONDS, unit)\n if (this in -maxNsInUnit..maxNsInUnit) {\n return
durationOfNanos(convertDurationUnitOverflow(this, unit, DurationUnit.NANOSECONDS))\n } else {\n val
millis = convertDurationUnit(this, unit, DurationUnit.MILLISECONDS)\n return
durationOfMillis(millis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n }\n}\n\n/** \n * Returns a [Duration] equal
to this [Double] number of the specified [unit].\n * \n * Depending on its magnitude, the value is rounded to an
integer number of nanoseconds or milliseconds.\n * \n * @throws IllegalArgumentException if this `Double` value is
`NaN`.\n *\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\npublic fun
Double.toDuration(unit: DurationUnit): Duration {\n val valueInNs = convertDurationUnit(this, unit,
DurationUnit.NANOSECONDS)\n require(!valueInNs.isNaN()) { "Duration value cannot be NaN." }\n val
nanos = valueInNs.roundToLong()\n return if (nanos in -MAX_NANOS..MAX_NANOS) {\n
durationOfNanos(nanos)\n } else {\n val millis = convertDurationUnit(this, unit,
DurationUnit.MILLISECONDS).roundToLong()\n durationOfMillisNormalized(millis)\n }\n}\n\n//
constructing from number of units\n// deprecated extension properties\n\n/** Returns a [Duration] equal to this [Int]
number of nanoseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Int.nanoseconds'
extension property from Duration.Companion instead.", ReplaceWith("this.nanoseconds",
"kotlin.time.Duration.Companion.nanoseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to this
[Long] number of nanoseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Long.nanoseconds' extension property from Duration.Companion instead.", ReplaceWith("this.nanoseconds",
"kotlin.time.Duration.Companion.nanoseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/** \n * Returns a [Duration] equal to this
[Double] number of nanoseconds.\n * \n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.nanoseconds' extension property
from Duration.Companion instead.", ReplaceWith("this.nanoseconds",
"kotlin.time.Duration.Companion.nanoseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to
this [Int] number of microseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Int.microseconds' extension property from Duration.Companion instead.", ReplaceWith("this.microseconds",
"kotlin.time.Duration.Companion.microseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val

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Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this
[Long] number of microseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Long.microseconds' extension property from Duration.Companion instead.", ReplaceWith("this.microseconds",
"kotlin.time.Duration.Companion.microseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/**\n * Returns a [Duration] equal to
this [Double] number of microseconds.\n * *\n * @throws IllegalArgumentException if this [Double] value is
`NaN`.\n *\n *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.microseconds' extension
property from Duration.Companion instead.", ReplaceWith("this.microseconds",
"kotlin.time.Duration.Companion.microseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to
this [Int] number of milliseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Int.milliseconds' extension property from Duration.Companion instead.", ReplaceWith("this.milliseconds",
"kotlin.time.Duration.Companion.milliseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this
[Long] number of milliseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Long.milliseconds' extension property from Duration.Companion instead.", ReplaceWith("this.milliseconds",
"kotlin.time.Duration.Companion.milliseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/**\n * Returns a [Duration] equal to this
[Double] number of milliseconds.\n * *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.milliseconds' extension property
from Duration.Companion instead.", ReplaceWith("this.milliseconds",
"kotlin.time.Duration.Companion.milliseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this
[Int] number of seconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Int.seconds'
extension property from Duration.Companion instead.", ReplaceWith("this.seconds",
"kotlin.time.Duration.Companion.seconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Int.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of
seconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Long.seconds' extension property
from Duration.Companion instead.", ReplaceWith("this.seconds",
"kotlin.time.Duration.Companion.seconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Long.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/**\n * Returns a [Duration] equal to this [Double]
number of seconds.\n * *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.seconds' extension property from
Duration.Companion instead.", ReplaceWith("this.seconds",
"kotlin.time.Duration.Companion.seconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Double.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/** Returns a [Duration] equal to this [Int]
number of minutes. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Int.minutes' extension
property from Duration.Companion instead.", ReplaceWith("this.minutes",
"kotlin.time.Duration.Companion.minutes"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Long] number of
minutes. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Long.minutes' extension property
from Duration.Companion instead.", ReplaceWith("this.minutes",
"kotlin.time.Duration.Companion.minutes"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/**\n * Returns a [Duration] equal to this [Double]
number of minutes.\n * *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.minutes' extension property from
Duration.Companion instead.", ReplaceWith("this.minutes",
"kotlin.time.Duration.Companion.minutes"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val

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Double.minutes get() = toDuration(DurationUnit.MINUTES)\n\n\n** Returns a [Duration] equal to this [Int]
number of hours. *\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\n@Deprecated("Use 'Int.hours' extension
property from Duration.Companion instead.", ReplaceWith("this.hours",
"kotlin.time.Duration.Companion.hours"))\n\n@DeprecatedSinceKotlin(warningSince = "1.5")\n\npublic val
Int.hours get() = toDuration(DurationUnit.HOURS)\n\n\n** Returns a [Duration] equal to this [Long] number of
hours. *\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\n@Deprecated("Use 'Long.hours' extension property from
Duration.Companion instead.", ReplaceWith("this.hours",
"kotlin.time.Duration.Companion.hours"))\n\n@DeprecatedSinceKotlin(warningSince = "1.5")\n\npublic val
Long.hours get() = toDuration(DurationUnit.HOURS)\n\n\n**\n\n * Returns a [Duration] equal to this [Double]
number of hours.\n\n *\n\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n\n
*\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\n@Deprecated("Use 'Double.hours' extension property from
Duration.Companion instead.", ReplaceWith("this.hours",
"kotlin.time.Duration.Companion.hours"))\n\n@DeprecatedSinceKotlin(warningSince = "1.5")\n\npublic val
Double.hours get() = toDuration(DurationUnit.HOURS)\n\n\n\n** Returns a [Duration] equal to this [Int] number of
days. *\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\n@Deprecated("Use 'Int.days' extension property from
Duration.Companion instead.", ReplaceWith("this.days",
"kotlin.time.Duration.Companion.days"))\n\n@DeprecatedSinceKotlin(warningSince = "1.5")\n\npublic val Int.days
get() = toDuration(DurationUnit.DAYS)\n\n\n\n** Returns a [Duration] equal to this [Long] number of days.
*\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\n@Deprecated("Use 'Long.days' extension property from
Duration.Companion instead.", ReplaceWith("this.days",
"kotlin.time.Duration.Companion.days"))\n\n@DeprecatedSinceKotlin(warningSince = "1.5")\n\npublic val
Long.days get() = toDuration(DurationUnit.DAYS)\n\n\n\n**\n\n * Returns a [Duration] equal to this [Double] number
of days.\n\n *\n\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n\n
*\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\n@Deprecated("Use 'Double.days' extension property from
Duration.Companion instead.", ReplaceWith("this.days",
"kotlin.time.Duration.Companion.days"))\n\n@DeprecatedSinceKotlin(warningSince = "1.5")\n\npublic val
Double.days get() = toDuration(DurationUnit.DAYS)\n\n\n\n\n** Returns a duration whose value is the specified
[duration] value multiplied by this number.
*\n\n@SinceKotlin("1.6")\n\n@WasExperimental(ExperimentalTime::class)\n\n@kotlin.internal.InlineOnly\n\npublic
inline operator fun Int.times(duration: Duration): Duration = duration * this\n\n\n\n**\n\n * Returns a duration whose
value is the specified [duration] value multiplied by this number.\n\n *\n\n * The operation may involve rounding when
the result cannot be represented exactly with a [Double] number.\n\n *\n\n * @throws IllegalArgumentException if the
operation results in a `NaN` value.\n\n
*\n\n@SinceKotlin("1.6")\n\n@WasExperimental(ExperimentalTime::class)\n\n@kotlin.internal.InlineOnly\n\npublic
inline operator fun Double.times(duration: Duration): Duration = duration * this\n\n\n\n\n\n\nprivate fun
parseDuration(value: String, strictIso: Boolean): Duration {\n\n    var length = value.length\n\n    if (length == 0) throw
IllegalArgumentException("The string is empty")\n\n    var index = 0\n\n    var result = Duration.ZERO\n\n    val
infinityString = "Infinity"\n\n    when (value[index]) {\n\n        '+', '-' -> index++\n\n    }\n\n    val hasSign = index > 0\n\n    val isNegative = hasSign && value.startsWith('-')\n\n    when {\n\n        length <= index ->\n\n            throw
IllegalArgumentException("No components")\n\n        value[index] == 'P' -> {\n\n            if (++index == length) throw
IllegalArgumentException()\n\n            val nonDigitSymbols = "+-.\n\n            var isTimeComponent = false\n\n            var prevUnit: DurationUnit? = null\n\n            while (index < length) {\n\n                if (value[index] == 'T') {\n\n                    if (isTimeComponent || ++index == length) throw
IllegalArgumentException()\n\n                    isTimeComponent =
true\n\n                    continue\n\n                }\n\n                val component = value.substringWhile(index) { it in '0'..'9' || it in
nonDigitSymbols }\n\n                if (component.isEmpty()) throw
IllegalArgumentException()\n\n                index +=
component.length\n\n                val unitChar = value.getOrNull(index) { throw
IllegalArgumentException("Missing unit for value $component") }\n\n                index++\n\n                val unit = durationUnitByIsoChar(unitChar,
isTimeComponent)\n\n                if (prevUnit != null && prevUnit <= unit) throw

```

```

IllegalArgumentException("Unexpected order of duration components")\n          prevUnit = unit\n          val
dotIndex = component.indexOf('.')\n          if (unit == DurationUnit.SECONDS && dotIndex > 0) {\n
val whole = component.substring(0, dotIndex)\n          result +=
parseOverLongIsoComponent(whole).toDuration(unit)\n          result +=
component.substring(dotIndex).toDouble().toDuration(unit)\n          } else {\n          result +=
parseOverLongIsoComponent(component).toDuration(unit)\n          }\n          }\n          strictIso ->\n
throw IllegalArgumentException()\n          value.regionMatches(index, infinityString, 0, length = maxOf(length -
index, infinityString.length), ignoreCase = true) -> {\n          result = Duration.INFINITE\n          }\n          else -> {\n
// parse default string format\n          var prevUnit: DurationUnit? = null\n          var afterFirst = false\n
var allowSpaces = !hasSign\n          if (hasSign && value[index] == '(' && value.last() == ')') {\n
allowSpaces = true\n          if (++index == --length) throw IllegalArgumentException("No components")\n
}\n          while (index < length) {\n          if (afterFirst && allowSpaces) {\n          index =
value.skipWhile(index) { it == ' ' }\n          }\n          afterFirst = true\n          val component =
value.substringWhile(index) { it in '0'..'9' || it == '.' }\n          if (component.isEmpty()) throw
IllegalArgumentException()\n          index += component.length\n          val unitName =
value.substringWhile(index) { it in 'a'..'z' }\n          index += unitName.length\n          val unit =
durationUnitByShortName(unitName)\n          if (prevUnit != null && prevUnit <= unit) throw
IllegalArgumentException("Unexpected order of duration components")\n          prevUnit = unit\n          val
dotIndex = component.indexOf('.')\n          if (dotIndex > 0) {\n          val whole = component.substring(0,
dotIndex)\n          result += whole.toLong().toDuration(unit)\n          result +=
component.substring(dotIndex).toDouble().toDuration(unit)\n          if (index < length) throw
IllegalArgumentException("Fractional component must be last")\n          } else {\n          result +=
component.toLong().toDuration(unit)\n          }\n          }\n          }\n          return if (isNegative) -result else
result\n}\n\nprivate fun parseOverLongIsoComponent(value: String): Long {\n  val length = value.length\n  var
startIndex = 0\n  if (length > 0 && value[0] in "+-") startIndex++\n  if ((length - startIndex) > 16 &&
(startIndex..value.lastIndex).all { value[it] in '0'..'9' }) {\n    // all chars are digits, but more than
ceiling(log10(MAX_MILLIS / 1000)) of them\n    return if (value[0] == '-') Long.MIN_VALUE else
Long.MAX_VALUE\n  }\n  // TODO: replace with just toLong after min JDK becomes 8\n  return if
(value.startsWith("+")) value.drop(1).toLong() else value.toLong()\n}\n\nprivate inline fun
String.substringWhile(startIndex: Int, predicate: (Char) -> Boolean): String =\n  substring(startIndex,
skipWhile(startIndex, predicate))\n\nprivate inline fun String.skipWhile(startIndex: Int, predicate: (Char) ->
Boolean): Int {\n  var i = startIndex\n  while (i < length && predicate(this[i])) i++\n  return i\n}\n\n\n\n\n\n//
The ranges are chosen so that they are:\n// - symmetric relative to zero: this greatly simplifies operations with sign,
e.g. unaryMinus and minus.\n// - non-overlapping, but adjacent: the first value that doesn't fit in nanos range, can be
exactly represented in millis.\n\ninternal const val NANOS_IN_MILLIS = 1_000_000\n// maximum number
duration can store in nanosecond range\n\ninternal const val MAX_NANOS = Long.MAX_VALUE / 2 /
NANOS_IN_MILLIS * NANOS_IN_MILLIS - 1 // ends in ..._999_999\n// maximum number duration can store in
millisecond range, also encodes an infinite value\n\ninternal const val MAX_MILLIS = Long.MAX_VALUE / 2\n//
MAX_NANOS expressed in milliseconds\n\nprivate const val MAX_NANOS_IN_MILLIS = MAX_NANOS /
NANOS_IN_MILLIS\n\nprivate fun nanosToMillis(nanos: Long): Long = nanos / NANOS_IN_MILLIS\n\nprivate
fun millisToNanos(millis: Long): Long = millis * NANOS_IN_MILLIS\n\nprivate fun
durationOfNanos(normalNanos: Long) = Duration(normalNanos shl 1)\n\nprivate fun durationOfMillis(normalMillis:
Long) = Duration((normalMillis shl 1) + 1)\n\nprivate fun durationOf(normalValue: Long, unitDiscriminator: Int) =
Duration((normalValue shl 1) + unitDiscriminator)\n\nprivate fun durationOfNanosNormalized(nanos: Long) =\n  if
(nanos in -MAX_NANOS..MAX_NANOS) {\n    durationOfNanos(nanos)\n  } else {\n
durationOfMillis(nanosToMillis(nanos))\n  }\n\nprivate fun durationOfMillisNormalized(millis: Long) =\n  if
(millis in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n
durationOfNanos(millisToNanos(millis))\n  } else {\n    durationOfMillis(millis.coerceIn(-MAX_MILLIS,

```

```

MAX_MILLIS))\n } \n\ninternal expect val durationAssertionsEnabled: Boolean\n\ninternal expect fun
formatToExactDecimals(value: Double, decimals: Int): String\n\ninternal expect fun formatUpToDecimals(value:
Double, decimals: Int): String", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("\UnsignedKt")\n\npackage
kotlin\n\n@PublishedApi\n\ninternal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor
Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\n\n@PublishedApi\n\ninternal fun ulongCompare(v1: Long,
v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor Long.MIN_VALUE)\n\n\n@PublishedApi\n\ninternal
fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()\n\n@PublishedApi\n\ninternal fun
uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\n\n// Division and remainder are
based on Guava's UnsignedLongs implementation\n\n// Copyright 2011 The Guava
Authors\n\n\n@PublishedApi\n\ninternal fun ulongDivide(v1: ULong, v2: ULong): ULong {\n    val dividend =
v1.toLong()\n    val divisor = v2.toLong()\n    if (divisor < 0) { // i.e., divisor >= 2^63:\n        return if (v1 < v2)
ULong(0) else ULong(1)\n    }\n\n    // Optimization - use signed division if both dividend and divisor < 2^63\n    if
(dividend >= 0) {\n        return ULong(dividend / divisor)\n    }\n\n    // Otherwise, approximate the quotient, check,
and correct if necessary.\n    val quotient = ((dividend ushr 1) / divisor) shl 1\n    val rem = dividend - quotient *
divisor\n    return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else 0)\n}\n\n\n@PublishedApi\n\ninternal
fun ulongRemainder(v1: ULong, v2: ULong): ULong {\n    val dividend = v1.toLong()\n    val divisor =
v2.toLong()\n    if (divisor < 0) { // i.e., divisor >= 2^63:\n        return if (v1 < v2) {\n            v1 // dividend <
divisor\n        } else {\n            v1 - v2 // dividend >= divisor\n        }\n    }\n\n    // Optimization - use signed
modulus if both dividend and divisor < 2^63\n    if (dividend >= 0) {\n        return ULong(dividend % divisor)\n
    }\n\n    // Otherwise, approximate the quotient, check, and correct if necessary.\n    val quotient = ((dividend ushr 1)
/ divisor) shl 1\n    val rem = dividend - quotient * divisor\n    return ULong(rem - if (ULong(rem) >=
ULong(divisor)) divisor else 0)\n}\n\n\n@PublishedApi\n\ninternal fun doubleToUInt(v: Double): UInt = when {\n
v.isNaN() -> 0u\n    v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE\n    v >=
UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE\n    v <= Int.MAX_VALUE -> v.toInt().toUInt()\n    else -
> (v - Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt() // Int.MAX_VALUE < v <
UInt.MAX_VALUE\n}\n\n\n@PublishedApi\n\ninternal fun doubleToULong(v: Double): ULong = when {\n
v.isNaN() -> 0u\n    v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE\n    v >=
ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE\n    v < Long.MAX_VALUE ->
v.toLong().toULong()\n\n    // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not
representable in Double, so don't handle them.\n    else -> (v - 9223372036854775808.0).toLong().toULong() +
9223372036854775808uL // Long.MAX_VALUE + 1 < v <
ULong.MAX_VALUE\n}\n\n\n\n@PublishedApi\n\ninternal fun uintToDouble(v: Int): Double = (v and
Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() * 2\n\n\n@PublishedApi\n\ninternal fun
ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)\n\n\n\ninternal fun
ulongToString(v: Long): String = ulongToString(v, 10)\n\n\ninternal fun ulongToString(v: Long, base: Int): String {\n
    if (v >= 0) return v.toString(base)\n\n    var quotient = ((v ushr 1) / base) shl 1\n    var rem = v - quotient * base\n
    if (rem >= base) {\n        rem -= base\n        quotient += 1\n    }\n    return quotient.toString(base) +
rem.toString(base)\n}\n\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName("\CollectionsKt")\n\n\npackage
kotlin.collections\n\n\n/**\n * Given an [iterator] function constructs an [Iterable] instance that returns values through
the [Iterator]\n * provided by that function.\n * @sample samples.collections.Iterables.Building.iterable\n */\n\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T>
= object : Iterable<T> {\n    override fun iterator(): Iterator<T> = iterator()\n}\n\n\n/**\n * A wrapper over another
[Iterable] (or any other object that can produce an [Iterator]) that returns\n * an indexing iterator.\n */\n\n\ninternal class

```

```

IndexingIterable<out T>(private val iteratorFactory: () -> Iterator<T>): Iterable<IndexedValue<T>> {
    override fun iterator(): Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())
}

Iterable<T>.collectionSizeOrNull(): Int? = if (this is Collection<*>) this.size else null
    Returns the size of this iterable if it is known, or `null` otherwise.

Iterable<T>.collectionSizeOrDefault(default: Int): Int = if (this is Collection<*>) this.size else default
    Returns a single list of all elements from all collections in the given collection.

samples.collections.Iterables.Operations.flattenIterable
    public fun <T> Iterable<Iterable<T>>.flatten(): List<T> {
        val result = ArrayList<T>()
        for (element in this) {
            result.addAll(element)
        }
        return result
    }
    Returns a pair of lists, where `first` list is built from the first values of each pair from this collection, `second` list is built from the second values of each pair from this collection.

samples.collections.Iterables.Operations.unzipIterable
    public fun <T, R> Iterable<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {
        val expectedSize = collectionSizeOrDefault(10)
        val listT = ArrayList<T>(expectedSize)
        val listR = ArrayList<R>(expectedSize)
        for (pair in this) {
            listT.add(pair.first)
            listR.add(pair.second)
        }
        return listT to listR
    }

Pair<List<T>, List<R>> {
    val expectedSize = collectionSizeOrDefault(10)
    val listT = ArrayList<T>(expectedSize)
    val listR = ArrayList<R>(expectedSize)
    for (pair in this) {
        listT.add(pair.first)
        listR.add(pair.second)
    }
    return listT to listR
}

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@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SequencesKt")
package kotlin.sequences
import kotlin.random.Random

* Given an [iterator] function constructs a [Sequence] that returns values through the [Iterator] provided by that function.
* The values are evaluated lazily, and the sequence is potentially infinite.

samples.collections.Sequences.Building.sequenceFromIterator
    @kotlin.internal.InlineOnly
    public inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {
        override fun iterator(): Iterator<T> = iterator()
    }
    Creates a sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.

samples.collections.Sequences.Building.sequenceFromIterator
    public fun <T> Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()
    Creates a sequence that returns the specified values.

samples.collections.Sequences.Building.sequenceOfValues
    public fun <T> sequenceOf(vararg elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else elements.asSequence()
    Returns an empty sequence.

emptySequence(): Sequence<T> = EmptySequence
private object EmptySequence : Sequence<Nothing>, DropTakeSequence<Nothing> {
    override fun iterator(): Iterator<Nothing> = EmptyIterator
    override fun drop(n: Int) = EmptySequence
    override fun take(n: Int) = EmptySequence
}
    Returns this sequence if it's not `null` and the empty sequence otherwise.

samples.collections.Sequences.Usage.sequenceOrEmpty
    @SinceKotlin("1.3")
    @kotlin.internal.InlineOnly
    public inline fun <T> Sequence<T>?.orEmpty(): Sequence<T> = this ?: emptySequence()
    Returns a sequence that iterates through the elements either of this sequence or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.

samples.collections.Sequences.Usage.sequenceIfEmpty
    @SinceKotlin("1.3")
    public fun <T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {
        val iterator = this@ifEmpty.iterator()
        if (iterator.hasNext()) {
            yieldAll(iterator)
        } else {
            yieldAll(defaultValue())
        }
    }
    Returns a sequence of all elements from all sequences in this sequence.
    The operation is _intermediate_ and _stateless_.

samples.collections.Sequences.Transformations.flattenSequenceOfSequences
    public fun <T> Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }
    Returns a sequence of all elements from all iterables in this sequence.
    The operation is _intermediate_ and _stateless_.

samples.collections.Sequences.Transformations.flattenSequenceOfLists
    @kotlin.jvm.JvmName("flattenSequenceOfIterable")
    public fun <T> Sequence<Iterable<T>>.flatten(): Sequence<T> = flatten { it.iterator() }
private fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>):

```



```

Sequence<R> {\n  if (this is TransformingSequence<*, *>) {\n    return (this as TransformingSequence<*,
T>).flatten(iterator)\n  }\n  return FlatteningSequence(this, { it }, iterator)\n}\n\n/**\n * Returns a pair of lists,
where\n * *first* list is built from the first values of each pair from this sequence,\n * *second* list is built from the
second values of each pair from this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Sequences.Transformations.unzip\n */\npublic fun <T, R> Sequence<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n  val listT = ArrayList<T>()\n  val listR = ArrayList<R>()\n  for (pair in this) {\n
listT.add(pair.first)\n    listR.add(pair.second)\n  }\n  return listT to listR\n}\n\n/**\n * Returns a sequence that
yields elements of this sequence randomly shuffled.\n *\n * Note that every iteration of the sequence returns
elements in a different order.\n *\n * The operation is _intermediate_ and _stateful_.\n
*/\n\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.shuffled(): Sequence<T> = shuffled(Random)\n\n/**\n * Returns a sequence that yields elements of this sequence randomly shuffled\n * using the specified [random]
instance as the source of randomness.\n *\n * Note that every iteration of the sequence returns elements in a
different order.\n *\n * The operation is _intermediate_ and _stateful_.\n */\n\n@SinceKotlin("1.4")\npublic fun <T>
Sequence<T>.shuffled(random: Random): Sequence<T> = sequence<T> {\n  val buffer = toMutableList()\n
while (buffer.isNotEmpty()) {\n    val j = random.nextInt(buffer.size)\n    val last = buffer.removeLast()\n
val value = if (j < buffer.size) buffer.set(j, last) else last\n    yield(value)\n  }\n}\n\n/**\n * A sequence that
returns the values from the underlying [sequence] that either match or do not match\n * the specified [predicate].\n
*\n * @param sendWhen If `true`, values for which the predicate returns `true` are returned. Otherwise,\n * values
for which the predicate returns `false` are returned\n */\n\ninternal class FilteringSequence<T>(\n  private val
sequence: Sequence<T>,\n  private val sendWhen: Boolean = true,\n  private val predicate: (T) -> Boolean\n) :
Sequence<T> {\n\n  override fun iterator(): Iterator<T> = object : Iterator<T> {\n    val iterator =
sequence.iterator()\n    var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n    var nextItem: T?
= null\n\n    private fun calcNext() {\n      while (iterator.hasNext()) {\n        val item = iterator.next()\n
if (predicate(item) == sendWhen) {\n          nextItem = item\n          nextState = 1\n
return\n        }\n      }\n      nextState = 0\n    }\n\n    override fun next(): T {\n      if (nextState
== -1)\n        calcNext()\n      if (nextState == 0)\n        throw NoSuchElementException()\n      val
result = nextItem\n      nextItem = null\n      nextState = -1\n      @Suppress("UNCHECKED_CAST")\n      return
result as T\n    }\n\n    override fun hasNext(): Boolean {\n      if (nextState == -1)\n        calcNext()\n      return nextState == 1\n    }\n  }\n}\n\n/**\n * A sequence which returns the results of
applying the given [transformer] function to the values\n * in the underlying [sequence].\n */\n\ninternal class
TransformingSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) :
Sequence<R> {\n  override fun iterator(): Iterator<R> = object : Iterator<R> {\n    val iterator =
sequence.iterator()\n    override fun next(): R {\n      return transformer(iterator.next())\n    }\n\n
override fun hasNext(): Boolean {\n      return iterator.hasNext()\n    }\n  }\n\n  internal fun <E>
flatten(iterator: (R) -> Iterator<E>): Sequence<E> {\n    return FlatteningSequence<T, R, E>(sequence,
transformer, iterator)\n  }\n}\n\n/**\n * A sequence which returns the results of applying the given [transformer]
function to the values\n * in the underlying [sequence], where the transformer function takes the index of the value
in the underlying\n * sequence along with the value itself.\n */\n\ninternal class TransformingIndexedSequence<T,
R>\nconstructor(private val sequence: Sequence<T>, private val transformer: (Int, T) -> R) : Sequence<R> {\n
override fun iterator(): Iterator<R> = object : Iterator<R> {\n  val iterator = sequence.iterator()\n  var index =
0\n  override fun next(): R {\n    return transformer(checkIndexOverflow(index++), iterator.next())\n
}\n\n  override fun hasNext(): Boolean {\n    return iterator.hasNext()\n  }\n}\n\n/**\n * A
sequence which combines values from the underlying [sequence] with their indices and returns them as\n *
[IndexValue] objects.\n */\n\ninternal class IndexingSequence<T>\nconstructor(private val sequence:
Sequence<T>) : Sequence<IndexedValue<T>> {\n  override fun iterator(): Iterator<IndexedValue<T>> = object :
Iterator<IndexedValue<T>> {\n    val iterator = sequence.iterator()\n    var index = 0\n    override fun next():
IndexedValue<T> {\n      return IndexedValue(checkIndexOverflow(index++), iterator.next())\n    }\n\n
override fun hasNext(): Boolean {\n      return iterator.hasNext()\n    }\n  }\n}\n\n/**\n * A sequence which

```

takes the values from two parallel underlying sequences, passes them to the given `[transform]` function and returns the values returned by that function. The sequence stops returning values as soon as one of the underlying sequences stops returning values.

```

internal class MergingSequence<T1, T2, V>
constructor(
private val sequence1: Sequence<T1>,
private val sequence2: Sequence<T2>,
private val transform: (T1, T2) -> V) : Sequence<V> {
override fun iterator(): Iterator<V> = object : Iterator<V> {
val iterator1 = sequence1.iterator()
val iterator2 = sequence2.iterator()
override fun next(): V {
return transform(iterator1.next(), iterator2.next())
}
override fun hasNext(): Boolean {
return iterator1.hasNext() && iterator2.hasNext()
}
}
}
}

internal class FlatteningSequence<T, R, E>
constructor(
private val sequence: Sequence<T>,
private val transformer: (T) -> R,
private val iterator: (R) -> Iterator<E>) : Sequence<E> {
override fun iterator(): Iterator<E> = object : Iterator<E> {
val iterator = sequence.iterator()
var itemIterator: Iterator<E>? = null
override fun next(): E {
if (!ensureItemIterator())
throw NoSuchElementException()
return itemIterator!!.next()
}
override fun hasNext(): Boolean {
return ensureItemIterator()
}
private fun ensureItemIterator(): Boolean {
if (itemIterator?.hasNext() == false)
itemIterator = null
while (itemIterator == null) {
if (!iterator.hasNext())
return false
else {
val element = iterator.next()
val nextItemIterator = iterator(transformer(element))
if (nextItemIterator.hasNext()) {
itemIterator = nextItemIterator
return true
}
}
}
return true
}
}
}

internal fun <T, C, R> flatMapIndexed(source: Sequence<T>, transform: (Int, T) -> C, iterator: (C) -> Iterator<R>): Sequence<R> =
sequence {
var index = 0
for (element in source) {
val result = transform(checkIndexOverflow(index++), element)
yieldAll(iterator(result))
}
}

// A sequence that supports drop(n) and take(n) operations
internal interface DropTakeSequence<T> : Sequence<T> {
fun drop(n: Int): Sequence<T>
fun take(n: Int): Sequence<T>
}

// A sequence that skips [startIndex] values from the underlying [sequence] and stops returning values right before [endIndex], i.e. stops at `endIndex - 1`
internal class SubSequence<T>(
private val sequence: Sequence<T>,
private val startIndex: Int,
private val endIndex: Int) : Sequence<T>, DropTakeSequence<T> {
init {
require(startIndex >= 0) { "\"startIndex should be non-negative, but is $startIndex\""}
require(endIndex >= 0) { "\"endIndex should be non-negative, but is $endIndex\""}
require(endIndex >= startIndex) { "\"endIndex should be not less than startIndex, but was $endIndex < $startIndex\""}
}
private val count: Int get() = endIndex - startIndex
override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else SubSequence(sequence, startIndex + n, endIndex)
override fun take(n: Int): Sequence<T> = if (n >= count) this else SubSequence(sequence, startIndex, startIndex + n)
override fun iterator() = object : Iterator<T> {
val iterator = sequence.iterator()
var position = 0
// Shouldn't be called from constructor to avoid premature iteration
private fun drop() {
while (position < startIndex && iterator.hasNext()) {
iterator.next()
position++
}
}
override fun hasNext(): Boolean {
drop()
return (position < endIndex) && iterator.hasNext()
}
override fun next(): T {
drop()
if (position >= endIndex)
throw NoSuchElementException()
position++
return iterator.next()
}
}
}

// A sequence that returns at most [count] values from the underlying [sequence], and stops returning values as soon as that count is reached.
internal class TakeSequence<T>(
private val sequence: Sequence<T>,
private val count: Int) : Sequence<T>, DropTakeSequence<T> {
init {
require(count >= 0) { "\"count must be non-negative, but was $count.\""}
}
override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else SubSequence(sequence, n, count)
override fun take(n: Int): Sequence<T> = if (n >= count) this else TakeSequence(sequence, n)
override fun iterator(): Iterator<T> = object : Iterator<T> {
var left = count
val iterator = sequence.iterator()
override fun next(): T {
if (left == 0)
throw NoSuchElementException()
left--
return iterator.next()
}
override fun hasNext(): Boolean {
return left > 0 && iterator.hasNext()
}
}
}

// A sequence that returns values from the underlying [sequence] while the [predicate] function returns `true`, and stops returning values once the function returns `false` for the next element.
internal class

```

```

TakeWhileSequence<T>\nconstructor(\n private val sequence: Sequence<T>,\n private val predicate: (T) ->
Boolean)\n) : Sequence<T> {\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n val iterator =
sequence.iterator()\n var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n var nextItem: T?
= null\n private fun calcNext() {\n if (iterator.hasNext()) {\n val item = iterator.next()\n
if (predicate(item)) {\n nextState = 1\n nextItem = item\n return\n }\n
nextState = 0\n }\n override fun next(): T {\n if (nextState == -1)\n
calcNext() // will change nextState\n if (nextState == 0)\n throw NoSuchElementException()\n
@Suppress("UNCHECKED_CAST")\n val result = nextItem as T\n // Clean next to avoid keeping
reference on yielded instance\n nextItem = null\n nextState = -1\n return result\n }\n
override fun hasNext(): Boolean {\n if (nextState == -1)\n calcNext() // will change nextState\n
return nextState == 1\n }\n }\n}\n\n/*\n * A sequence that skips the specified number of values from the
underlying [sequence] and returns\n * all values after that.\n */\ninternal class DropSequence<T>(\n private val
sequence: Sequence<T>,\n private val count: Int)\n) : Sequence<T>, DropTakeSequence<T> {\n init {\n
require(count >= 0) { \"count must be non-negative, but was $count.\" }\n }\n override fun drop(n: Int):
Sequence<T> = (count + n).let { n1 -> if (n1 < 0) DropSequence(this, n) else DropSequence(sequence, n1) }\n
override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else
SubSequence(sequence, count, n1) }\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n val
iterator = sequence.iterator()\n var left = count\n // Shouldn't be called from constructor to avoid
premature iteration\n private fun drop() {\n while (left > 0 && iterator.hasNext()) {\n
iterator.next()\n left--\n }\n }\n override fun next(): T {\n drop()\n return
iterator.next()\n }\n override fun hasNext(): Boolean {\n drop()\n return iterator.hasNext()\n
}\n }\n}\n\n/*\n * A sequence that skips the values from the underlying [sequence] while the given
[predicate] returns `true` and returns\n * all values after that.\n */\ninternal class
DropWhileSequence<T>(\n constructor(\n private val sequence: Sequence<T>,\n private val predicate: (T) ->
Boolean)\n) : Sequence<T> {\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n val iterator =
sequence.iterator()\n var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration\n
var nextItem: T? = null\n private fun drop() {\n while (iterator.hasNext()) {\n val item =
iterator.next()\n if (!predicate(item)) {\n nextItem = item\n dropState = 1\n
return\n }\n }\n dropState = 0\n }\n override fun next(): T {\n if
(dropState == -1)\n drop()\n if (dropState == 1) {\n
@Suppress("UNCHECKED_CAST")\n val result = nextItem as T\n nextItem = null\n
dropState = 0\n return result\n }\n return iterator.next()\n }\n override fun
hasNext(): Boolean {\n if (dropState == -1)\n drop()\n return dropState == 1 ||
iterator.hasNext()\n }\n }\n}\n\ninternal class DistinctSequence<T, K>(\n private val source: Sequence<T>,\n
private val keySelector: (T) -> K) : Sequence<T> {\n override fun iterator(): Iterator<T> =
DistinctIterator(source.iterator(), keySelector)\n}\n\nprivate class DistinctIterator<T, K>(\n private val source:
Iterator<T>,\n private val keySelector: (T) -> K) : AbstractIterator<T>() {\n private val observed =
HashSet<K>()\n override fun computeNext() {\n while (source.hasNext()) {\n val next =
source.next()\n val key = keySelector(next)\n if (observed.add(key)) {\n setNext(next)\n
return\n }\n }\n done()\n }\n}\n\nprivate class GeneratorSequence<T : Any>(\n private val
getInitialValue: () -> T?,\n private val getNextValue: (T) -> T?) : Sequence<T> {\n override fun iterator():
Iterator<T> = object : Iterator<T> {\n var nextItem: T? = null\n var nextState: Int = -2 // -2 for initial
unknown, -1 for next unknown, 0 for done, 1 for continue\n private fun calcNext() {\n nextItem = if
(nextState == -2) getInitialValue() else getNextValue(nextItem!)\n nextState = if (nextItem == null) 0 else
1\n }\n override fun next(): T {\n if (nextState < 0)\n calcNext()\n if (nextState
== 0)\n throw NoSuchElementException()\n val result = nextItem as T\n // Do not clean
nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue\n nextState
= -1\n return result\n }\n override fun hasNext(): Boolean {\n if (nextState < 0)\n

```



```

}\n}\n/n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\n
*\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n *^\n@kotlin.internal.InlineOnly\npublic
inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {\n contract {\n returns() implies value\n }\n
if (!value) {\n val message = lazyMessage()\n throw IllegalStateException(message.toString())\n
}\n}\n/n/**\n * Throws an [IllegalStateException] if the [value] is null. Otherwise\n * returns the not null value.\n
*\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n *^\n@kotlin.internal.InlineOnly\npublic
inline fun <T : Any> checkNotNull(value: T?): T {\n contract {\n returns() implies (value != null)\n }\n
return checkNotNull(value) { "Required value was null." }\n}\n/n/**\n * Throws an [IllegalStateException] with
the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample
samples.misc.Preconditions.failCheckWithLazyMessage\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T :
Any> checkNotNull(value: T?, lazyMessage: () -> Any): T {\n contract {\n returns() implies (value != null)\n
}\n\n if (value == null) {\n val message = lazyMessage()\n throw
IllegalStateException(message.toString())\n } else {\n return value\n }\n}\n}\n/n/**\n * Throws an
[IllegalStateException] with the given [message].\n *\n * @sample samples.misc.Preconditions.failWithError\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun error(message: Any): Nothing = throw
IllegalStateException(message.toString())\n",/>\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED
by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport
kotlin.js.*\nimport primitiveArrayConcat\nimport withType\nimport kotlin.ranges.contains\nimport
kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an
[IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n *\n * @sample
samples.collections.Collections.Elements.elementAt\n *^\npublic actual fun <T> Array<out T>.elementAt(index:
Int): T {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n
}\n}\n/n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n *\n *\n * @sample samples.collections.Collections.Elements.elementAt\n *^\npublic
actual fun ByteArray.elementAt(index: Int): Byte {\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, size: $size") }\n}\n}\n/n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n *\n * @sample
samples.collections.Collections.Elements.elementAt\n *^\npublic actual fun ShortArray.elementAt(index: Int): Short
{\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n
}\n}\n/n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n *\n *\n * @sample samples.collections.Collections.Elements.elementAt\n *^\npublic
actual fun IntArray.elementAt(index: Int): Int {\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, size: $size") }\n}\n}\n/n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n *\n * @sample
samples.collections.Collections.Elements.elementAt\n *^\npublic actual fun LongArray.elementAt(index: Int): Long
{\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n
}\n}\n/n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n *\n *\n * @sample samples.collections.Collections.Elements.elementAt\n *^\npublic
actual fun FloatArray.elementAt(index: Int): Float {\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, size: $size") }\n}\n}\n/n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n *\n * @sample
samples.collections.Collections.Elements.elementAt\n *^\npublic actual fun DoubleArray.elementAt(index: Int):
Double {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n
}\n}\n/n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n *\n *\n * @sample samples.collections.Collections.Elements.elementAt\n *^\npublic
actual fun BooleanArray.elementAt(index: Int): Boolean {\n return elementAtOrElse(index) { throw

```


contains itself on any nesting level the behavior is undefined.\n

```
*\n@SinceKotlin("1.4")\n@library("arrayDeepHashCode")\npublic actual fun <T> Array<out T>?.contentDeepHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `[...]` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n*\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out T>.contentDeepToString(): String {\n    return this.contentDeepToString()\n}\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `[...]` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n*\n@SinceKotlin("1.4")\n@library("arrayDeepToString")\npublic actual fun <T> Array<out T>?.contentDeepToString(): String {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun ByteArray.contentEquals(other: ByteArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun ShortArray.contentEquals(other: ShortArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun IntArray.contentEquals(other: IntArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun LongArray.contentEquals(other: LongArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun FloatArray.contentEquals(other: FloatArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns
```

```

`true` if the two specified arrays are structurally equal to one another,\n * i.e. contain the same number of the
same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
DoubleArray.contentEquals(other: DoubleArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n *
Returns `true` if the two specified arrays are structurally equal to one another,\n * i.e. contain the same number of
the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
BooleanArray.contentEquals(other: BooleanArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n *
Returns `true` if the two specified arrays are structurally equal to one another,\n * i.e. contain the same number of
the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
CharArray.contentEquals(other: CharArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns
`true` if the two specified arrays are structurally equal to one another,\n * i.e. contain the same number of the
same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun <T> Array<out
T>?.contentEquals(other: Array<out T>?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two
specified arrays are structurally equal to one another,\n * i.e. contain the same number of the same elements in the
same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating
point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun ByteArray?.contentEquals(other:
ByteArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun ShortArray?.contentEquals(other:
ShortArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun IntArray?.contentEquals(other:
IntArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun LongArray?.contentEquals(other:
LongArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun FloatArray?.contentEquals(other:
FloatArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are

```


structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

```

*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
 *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
 */\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
 *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
 */\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun CharArray?.contentEquals(other: CharArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun <T> Array<out T>.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun ByteArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun ShortArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun IntArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun LongArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun FloatArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun DoubleArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun BooleanArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun CharArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun <T> Array<out T>?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun ByteArray?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun ShortArray?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the

```

contents of this array as if it is [List].
`@SinceKotlin("1.4")@library("arrayHashCode")public actual fun IntArray?.contentHashCode(): Int {
 definedExternally
 }
 }` Returns a hash code based on the contents of this array as if it is [List].
`@SinceKotlin("1.4")@library("arrayHashCode")public actual fun LongArray?.contentHashCode(): Int {
 definedExternally
 }
 }` Returns a hash code based on the contents of this array as if it is [List].
`@SinceKotlin("1.4")@library("arrayHashCode")public actual fun FloatArray?.contentHashCode(): Int {
 definedExternally
 }
 }` Returns a hash code based on the contents of this array as if it is [List].
`@SinceKotlin("1.4")@library("arrayHashCode")public actual fun DoubleArray?.contentHashCode(): Int {
 definedExternally
 }
 }` Returns a hash code based on the contents of this array as if it is [List].
`@SinceKotlin("1.4")@library("arrayHashCode")public actual fun BooleanArray?.contentHashCode(): Int {
 definedExternally
 }
 }` Returns a hash code based on the contents of this array as if it is [List].
`@SinceKotlin("1.4")@library("arrayHashCode")public actual fun CharArray?.contentHashCode(): Int {
 definedExternally
 }
 }` Returns a string representation of the contents of the specified array as if it is [List].
`@sample`
`samples.collections.Arrays.ContentOperations.contentToString`
`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")@SinceKotlin("1.1")@DeprecatedSinceKotlin(hiddenSince = "1.4")public actual fun <T> Array<out T>.contentToString(): String {
 return this.contentToString()
 }
 }` Returns a string representation of the contents of the specified array as if it is [List].
`@sample`
`samples.collections.Arrays.ContentOperations.contentToString`
`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")@SinceKotlin("1.1")@DeprecatedSinceKotlin(hiddenSince = "1.4")public actual fun ByteArray.contentToString(): String {
 return this.contentToString()
 }
 }` Returns a string representation of the contents of the specified array as if it is [List].
`@sample`
`samples.collections.Arrays.ContentOperations.contentToString`
`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")@SinceKotlin("1.1")@DeprecatedSinceKotlin(hiddenSince = "1.4")public actual fun ShortArray.contentToString(): String {
 return this.contentToString()
 }
 }` Returns a string representation of the contents of the specified array as if it is [List].
`@sample`
`samples.collections.Arrays.ContentOperations.contentToString`
`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")@SinceKotlin("1.1")@DeprecatedSinceKotlin(hiddenSince = "1.4")public actual fun IntArray.contentToString(): String {
 return this.contentToString()
 }
 }` Returns a string representation of the contents of the specified array as if it is [List].
`@sample`
`samples.collections.Arrays.ContentOperations.contentToString`
`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")@SinceKotlin("1.1")@DeprecatedSinceKotlin(hiddenSince = "1.4")public actual fun LongArray.contentToString(): String {
 return this.contentToString()
 }
 }` Returns a string representation of the contents of the specified array as if it is [List].
`@sample`
`samples.collections.Arrays.ContentOperations.contentToString`
`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")@SinceKotlin("1.1")@DeprecatedSinceKotlin(hiddenSince = "1.4")public actual fun FloatArray.contentToString(): String {
 return this.contentToString()
 }
 }` Returns a string representation of the contents of the specified array as if it is [List].
`@sample`
`samples.collections.Arrays.ContentOperations.contentToString`
`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")@SinceKotlin("1.1")@DeprecatedSinceKotlin(hiddenSince = "1.4")public actual fun DoubleArray.contentToString(): String {
 return this.contentToString()
 }
 }` Returns a string representation of the contents of the specified array as if it is [List].
`@sample`
`samples.collections.Arrays.ContentOperations.contentToString`
`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")@SinceKotlin("1.1")@DeprecatedSinceKotlin(hiddenSince = "1.4")public actual fun BooleanArray.contentToString(): String {
 return this.contentToString()
 }
 }` Returns a string representation of the contents of the specified array as if it is [List].
`@sample`
`samples.collections.Arrays.ContentOperations.contentToString`
`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")@SinceKotlin("1.1")@DeprecatedSinceKotlin(hiddenSince = "1.4")public actual fun CharArray.contentToString(): String {
 return this.contentToString()
 }
 }` Returns a string

representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n

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*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun <T> Array<out T>?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun ByteArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun ShortArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun IntArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun LongArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun FloatArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun DoubleArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun BooleanArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun CharArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {\n    arrayCopy(this, destination, destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
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starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n *\n * @return the [destination] array.\n

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray {\n    arrayCopy(this.unsafeCast<Array<Byte>>(), destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray {\n    arrayCopy(this.unsafeCast<Array<Short>>(), destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
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```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {\n    arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
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```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray {\n    arrayCopy(this.unsafeCast<Array<Long>>(), destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to
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copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n

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*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray {\n    arrayCopy(this.unsafeCast<Array<Float>>(), destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n
```

* Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {\n    arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n
```

* Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {\n
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    arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0,
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startIndex: Int = 0, endIndex: Int = size): CharArray {\n  arrayCopy(this.unsafeCast<Array<Char>>(),
destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n  return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *^\n@Suppress("ACTUAL_WITHOUT_EXPECT",
"NOTHING_TO_INLINE")\npublic actual inline fun <T> Array<out T>.copyOf(): Array<T> {\n  return
this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *^\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline fun ByteArray.copyOf(): ByteArray {\n  return this.asDynamic().slice()\n}\n\n/**\n * Returns new
array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *^\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline fun ShortArray.copyOf(): ShortArray {\n  return this.asDynamic().slice()\n}\n\n/**\n * Returns new
array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *^\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline fun IntArray.copyOf(): IntArray {\n  return this.asDynamic().slice()\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n
*^\npublic actual fun LongArray.copyOf(): LongArray {\n  return withType("LongArray",
this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *^\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline fun FloatArray.copyOf(): FloatArray {\n  return this.asDynamic().slice()\n}\n\n/**\n * Returns new
array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *^\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline fun DoubleArray.copyOf(): DoubleArray {\n  return this.asDynamic().slice()\n}\n\n/**\n * Returns
new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *^\npublic actual fun BooleanArray.copyOf():
BooleanArray {\n  return withType("BooleanArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n
*^\npublic actual fun CharArray.copyOf(): CharArray {\n  return withType("CharArray",
this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given
[newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize]
is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater
than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *^\npublic actual fun
ByteArray.copyOf(newSize: Int): ByteArray {\n  require(newSize >= 0) { "Invalid new array size: $newSize." }\n
  return fillFrom(this, ByteArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if
necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*^\npublic actual fun ShortArray.copyOf(newSize: Int): ShortArray {\n  require(newSize >= 0) { "Invalid new
array size: $newSize." }\n  return fillFrom(this, ShortArray(newSize))\n}\n\n/**\n * Returns new array which is a
copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with
zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated
to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array
are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *^\npublic actual fun
IntArray.copyOf(newSize: Int): IntArray {\n  require(newSize >= 0) { "Invalid new array size: $newSize." }\n
  return fillFrom(this, IntArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array,
resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n

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* \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun LongArray.copyOf(newSize: Int): LongArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return withType(\"LongArray\", arrayCopyResize(this, newSize, 0L))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun FloatArray.copyOf(newSize: Int): FloatArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return fillFrom(this, FloatArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun DoubleArray.copyOf(newSize: Int): DoubleArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return fillFrom(this, DoubleArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun BooleanArray.copyOf(newSize: Int): BooleanArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return withType(\"BooleanArray\", arrayCopyResize(this, newSize, false))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (`\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\u0000`) values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun CharArray.copyOf(newSize: Int): CharArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return withType(\"CharArray\", fillFrom(this, CharArray(newSize)))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n *\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOf(newSize: Int): Array<T?> {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return arrayCopyResize(this, newSize, null)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * @throws IndexOutOfBoundsException

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if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
 IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun
 ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {\n
 AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,
 toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
 @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
 copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
 size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic
 actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {\n
 AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,
 toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
 @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
 copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
 size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic
 actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {\n
 AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,
 toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
 @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
 copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
 size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic
 actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {\n
 AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType("<code>LongArray</code>",
 this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified
 range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param
 toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
 less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
 [fromIndex] is greater than [toIndex].\n */\npublic actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int):
 FloatArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return
 this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range
 of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the
 end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
 or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
 than [toIndex].\n */\npublic actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {\n
 AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,
 toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
 @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
 copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
 size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic
 actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n
 AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType("<code>BooleanArray</code>",
 this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified
 range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param
 toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
 less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
 [fromIndex] is greater than [toIndex].\n */\npublic actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int):
 CharArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType("<code>CharArray</code>",
 this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified
 [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param

toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

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*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)

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to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

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*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline operator
fun <T> Array<out T>.plus(element: T): Array<T> {\n return
this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original
array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator
fun ByteArray.plus(element: Byte): ByteArray {\n return plus(byteArrayOf(element))\n}\n\n/**\n * Returns an
array containing all elements of the original array and then the given [element].\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(element: Short):
ShortArray {\n return plus(shortArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the
original array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline
operator fun IntArray.plus(element: Int): IntArray {\n return plus(intArrayOf(element))\n}\n\n/**\n * Returns an
array containing all elements of the original array and then the given [element].\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun LongArray.plus(element: Long):
LongArray {\n return plus(longArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the
original array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline
operator fun FloatArray.plus(element: Float): FloatArray {\n return plus(floatArrayOf(element))\n}\n\n/**\n *
Returns an array containing all elements of the original array and then the given [element].\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(element:
Double): DoubleArray {\n return plus(doubleArrayOf(element))\n}\n\n/**\n * Returns an array containing all
elements of the original array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline operator fun BooleanArray.plus(element: Boolean): BooleanArray {\n return
plus(booleanArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then
the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun
CharArray.plus(element: Char): CharArray {\n return plus(charArrayOf(element))\n}\n\n/**\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] collection.\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\npublic actual operator fun <T> Array<out T>.plus(elements:

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Collection<T>): Array<T> {\n return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun IntArray.plus(elements: Collection<Int>): IntArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun LongArray.plus(elements: Collection<Long>): LongArray {\n return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun FloatArray.plus(elements: Collection<Float>): FloatArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {\n return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun CharArray.plus(elements: Collection<Char>): CharArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>): Array<T> {\n return this.asDynamic().concat(elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ByteArray.plus(elements: ByteArray): ByteArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(elements: ShortArray): ShortArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun IntArray.plus(elements: IntArray): IntArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun LongArray.plus(elements: LongArray): LongArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun FloatArray.plus(elements: FloatArray): FloatArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array

containing all elements of the original array and then all elements of the given [elements] array.\n

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*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun CharArray.plus(elements:
CharArray): CharArray {\n    return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing
all elements of the original array and then the given [element].\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline fun <T>
Array<out T>.plusElement(element: T): Array<T> {\n    return
this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun
IntArray.sort(): Unit {\n    definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\npublic actual fun LongArray.sort(): Unit {\n
@Suppress("DEPRECATION")\n    if (size > 1) sort { a: Long, b: Long -> a.compareTo(b) }\n}\n\n/**\n * Sorts
the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun ByteArray.sort(): Unit {\n    definedExternally\n}\n\n/**\n
* Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun ShortArray.sort(): Unit {\n    definedExternally\n}\n\n/**\n
* Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun DoubleArray.sort(): Unit {\n
definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun
FloatArray.sort(): Unit {\n    definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun
CharArray.sort(): Unit {\n    definedExternally\n}\n\n/**\n * Sorts the array in-place according to the natural order
of its elements.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n
*\npublic actual fun
<T : Comparable<T>> Array<out T>.sort(): Unit {\n    if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-
place according to the order specified by the given [comparison] function.\n * \n * The sort is _stable_. It means that
equal elements preserve their order relative to each other after sorting.\n * \n * @Deprecated("Use sortWith instead",
ReplaceWith("this.sortWith(Comparator(comparison))"))\n
*\n@DeprecatedSinceKotlin(warningSince =
"1.6")\npublic fun <T> Array<out T>.sort(comparison: (a: T, b: T) -> Int): Unit {\n    if (size > 1)
sortArrayWith(this, comparison)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * The sort is _stable_. It
means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the
start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable\n
*\n@SinceKotlin("1.4")\n
*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n
*\npublic actual fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArrayWith(this, fromIndex, toIndex,
naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n
*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n
*\npublic actual fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ByteArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *

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@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ShortArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<IntArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArrayWith(this.unsafeCast<Array<Long>>(),
fromIndex, toIndex, naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex
the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort,
size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<FloatArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<DoubleArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts
a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n

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*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<CharArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts the
array in-place according to the order specified by the given [comparison] function.\n *\n@Deprecated("Use other
sorting functions from the Standard Library")\n@DeprecatedSinceKotlin(warningSince =
"1.6")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) ->
Int): Unit {\n    asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified
by the given [comparison] function.\n *\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {\n
asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n *\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {\n    asDynamic().sort(comparison)\n}\n\n/**\n *
Sorts the array in-place according to the order specified by the given [comparison] function.\n
*\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sort(noinline comparison: (a: Long, b: Long) -> Int): Unit {\n
asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n *\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {\n
asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n *\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {\n
asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n *\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {\n
asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n *\npublic actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit {\n    if
(size > 1) sortArrayWith(this, comparator)\n}\n\n/**\n * Sorts a range in the array in-place with the given
[comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex
the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size):
Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArrayWith(this, fromIndex, toIndex,
comparator)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n
*\npublic actual fun ByteArray.toTypedArray(): Array<Byte> {\n    return js("[]").slice.call(this)\n}\n\n/**\n *
Returns a *typed* object array containing all of the elements of this primitive array.\n *\npublic actual fun
ShortArray.toTypedArray(): Array<Short> {\n    return js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed*
object array containing all of the elements of this primitive array.\n *\npublic actual fun IntArray.toTypedArray():

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Array<Int> {\n    return js("[\]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the
elements of this primitive array.\n */\npublic actual fun LongArray.toTypedArray(): Array<Long> {\n    return
js("[\]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n */\npublic actual fun FloatArray.toTypedArray(): Array<Float> {\n    return
js("[\]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n */\npublic actual fun DoubleArray.toTypedArray(): Array<Double> {\n    return
js("[\]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n */\npublic actual fun BooleanArray.toTypedArray(): Array<Boolean> {\n    return
js("[\]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n */\npublic actual fun CharArray.toTypedArray(): Array<Char> {\n    return Array(size) { index ->
this[index] }\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n@file:kotlin.jvm.JvmName("ComparisonsKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.comparisons\n\n/**\n * Compares two values using the specified functions [selectors] to calculate the result
of the comparison.\n * The functions are called sequentially, receive the given values [a] and [b] and return
[Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for [a] and [b] values do
not\n * compare as equal, the result of that comparison is returned.\n */\n * @sample
samples.comparisons.Comparisons.compareValuesByWithSelectors\n */\npublic fun <T> compareValuesBy(a: T,
b: T, vararg selectors: (T) -> Comparable<*>?): Int {\n    require(selectors.size > 0)\n    return
compareValuesByImpl(a, b, selectors)\n}\n\nprivate fun <T> compareValuesByImpl(a: T, b: T, selectors:
Array<out (T) -> Comparable<*>?): Int {\n    for (fn in selectors) {\n        val v1 = fn(a)\n        val v2 = fn(b)\n
val diff = compareValues(v1, v2)\n        if (diff != 0) return diff\n    }\n    return 0\n}\n\n/**\n * Compares two
values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to
the given values [a] and [b] and return [Comparable] objects.\n * The result of comparison of these [Comparable]
instances is returned.\n */\n * @sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareValuesBy(a: T, b: T, selector: (T) ->
Comparable<*>?): Int {\n    return compareValues(selector(a), selector(b))\n}\n\n/**\n * Compares two values
using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the
given values [a] and [b] and return objects of type K which are then being\n * compared with the given
[comparator].\n */\n * @sample samples.comparisons.Comparisons.compareValuesByWithComparator\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in
K>, selector: (T) -> K): Int {\n    return comparator.compare(selector(a), selector(b))\n}\n\n//// Not so useful without
type inference for receiver of expression\n//// compareValuesWith(v1, v2, compareBy { it.prop1 }
thenByDescending { it.prop2 })\n\n/**\n * Compares two values using the specified [comparator].\n */\n
*/\n@Suppress("NOTHING_TO_INLINE")\npublic inline fun <T> compareValuesWith(a: T, b: T, comparator:
Comparator<T>): Int = comparator.compare(a, b)\n\n/**\n * Compares two nullable [Comparable] values. Null
is considered less than any value.\n */\n * @sample samples.comparisons.Comparisons.compareValues\n */\npublic
fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int {\n    if (a === b) return 0\n    if (a == null) return -1\n
if (b == null) return 1\n    @Suppress("UNCHECKED_CAST")\n    return (a as
Comparable<Any>).compareTo(b)\n}\n\n/**\n * Creates a comparator using the sequence of functions to calculate a
result of comparison.\n * The functions are called sequentially, receive the given values `a` and `b` and return
[Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for `a` and `b` values do
not\n * compare as equal, the result of that comparison is returned from the [Comparator].\n */\n * @sample
samples.comparisons.Comparisons.compareByWithSelectors\n */\npublic fun <T> compareBy(vararg selectors: (T)
-> Comparable<*>?): Comparator<T> {\n    require(selectors.size > 0)\n    return Comparator { a, b ->
compareValuesByImpl(a, b, selectors) }\n}\n\n/**\n * Creates a comparator using the function to transform value
to a [Comparable] instance for comparison.\n */\n * @sample

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samples.comparisons.Comparisons.compareByWithSingleSelector\n *\n@kotlin.internal.InlineOnly\npublic inline
fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n    Comparator { a, b ->
compareValuesBy(a, b, selector) }\n\n/**\n * Creates a comparator using the [selector] function to transform values
being compared and then applying\n * the specified [comparator] to compare transformed values.\n *\n * @sample
samples.comparisons.Comparisons.compareByWithComparator\n *\n@kotlin.internal.InlineOnly\npublic inline
fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n    \n    Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }\n\n\n/**\n * Creates a descending comparator
using the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample
samples.comparisons.Comparisons.compareByDescendingWithSingleSelector\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareByDescending(crossinline selector: (T) ->
Comparable<*>?): Comparator<T> =\n    \n    Comparator { a, b -> compareValuesBy(b, a, selector) }\n\n\n/**\n *
Creates a descending comparator using the [selector] function to transform values being compared and then
applying\n * the specified [comparator] to compare transformed values.\n *\n * Note that an order of [comparator] is
reversed by this wrapper.\n *\n * @sample
samples.comparisons.Comparisons.compareByDescendingWithComparator\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareByDescending(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =\n    \n    Comparator { a, b -> compareValuesBy(b, a, comparator,
selector) }\n\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal. It
uses\n * the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample
samples.comparisons.Comparisons.thenBy\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n    \n    Comparator { a, b -
>\n        val previousCompare = this@thenBy.compare(a, b)\n        if (previousCompare != 0) previousCompare else
compareValuesBy(a, b, selector)\n    }\n\n\n/**\n * Creates a comparator comparing values after the primary
comparator defined them equal. It uses\n * the [selector] function to transform values and then compares them with
the given [comparator].\n *\n * @sample
samples.comparisons.Comparisons.thenByWithComparator\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> Comparator<T>.thenBy(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =\n    \n    Comparator { a, b ->\n        val previousCompare =
this@thenBy.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(a, b,
comparator, selector)\n    }\n\n\n/**\n * Creates a descending comparator using the primary comparator and\n * the
function to transform value to a [Comparable] instance for comparison.\n *\n * @sample
samples.comparisons.Comparisons.thenByDescending\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n    \n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a, b)\n        if
(previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\n    }\n\n\n/**\n * Creates a
descending comparator comparing values after the primary comparator defined them equal. It uses\n * the [selector]
function to transform values and then compares them with the given [comparator].\n *\n * @sample
samples.comparisons.Comparisons.thenByDescendingWithComparator\n *\n@kotlin.internal.InlineOnly\npublic
inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) ->
K): Comparator<T> =\n    \n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a,
b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)\n    }\n\n\n\n/**\n * Creates a comparator using the primary comparator and function to calculate a result of comparison.\n *\n * @sample
samples.comparisons.Comparisons.thenComparator\n *\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\n    \n    Comparator { a, b ->\n        val previousCompare = this@thenComparator.compare(a, b)\n        if (previousCompare
!= 0) previousCompare else comparison(a, b)\n    }\n\n\n/**\n * Combines this comparator and the given [comparator]
such that the latter is applied only\n * when the former considered values equal.\n *\n * @sample
samples.comparisons.Comparisons.then\n *\npublic infix fun <T> Comparator<T>.then(comparator:
Comparator<in T>): Comparator<T> =\n    \n    Comparator { a, b ->\n        val previousCompare =

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this@then.compare(a, b)\n    if (previousCompare != 0) previousCompare else comparator.compare(a, b)\n
}\n\n/**\n * Combines this comparator and the given [comparator] such that the latter is applied only\n * when the
former considered values equal.\n *\n * @sample samples.comparisons.Comparisons.thenDescending\n */\npublic
infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\n
Comparator<T> { a, b ->\n    val previousCompare = this@thenDescending.compare(a, b)\n    if
(previousCompare != 0) previousCompare else comparator.compare(b, a)\n    }\n\n// Not so useful without type
inference for receiver of expression\n\n/**\n * Extends the given [comparator] of non-nullable values to a comparator
of nullable values\n * considering `null` value less than any other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Any>
nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a
=== b -> 0\n            a == null -> -1\n            b == null -> 1\n            else -> comparator.compare(a, b)\n        }\n    }\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value less than any other
value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> =
nullsFirst(naturalOrder())\n\n/**\n * Extends the given [comparator] of non-nullable values to a comparator of
nullable values\n * considering `null` value greater than any other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Any>
nullsLast(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a
=== b -> 0\n            a == null -> 1\n            b == null -> -1\n            else -> comparator.compare(a, b)\n        }\n    }\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value greater than any
other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> =
nullsLast(naturalOrder())\n\n/**\n * Returns a comparator that compares [Comparable] objects in natural order.\n
*\n * @sample samples.comparisons.Comparisons.naturalOrderComparator\n */\npublic fun <T : Comparable<T>>
naturalOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST") (NaturalOrderComparator as
Comparator<T>)\n\n/**\n * Returns a comparator that compares [Comparable] objects in reversed natural order.\n
*\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T :
Comparable<T>> reverseOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST")
(ReverseOrderComparator as Comparator<T>)\n\n/**\n * Returns a comparator that imposes the reverse ordering
of this comparator.\n *\n * @sample samples.comparisons.Comparisons.reversed\n
*/\n\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\npublic fun <T> Comparator<T>.reversed():
Comparator<T> = when (this) {\n    is ReversedComparator -> this.comparator\n    NaturalOrderComparator ->
@Suppress("UNCHECKED_CAST") (ReverseOrderComparator as Comparator<T>)\n    ReverseOrderComparator -> @Suppress("UNCHECKED_CAST") (NaturalOrderComparator as
Comparator<T>)\n    else -> ReversedComparator(this)\n}\n\nprivate class ReversedComparator<T>(public val
comparator: Comparator<T>) : Comparator<T> {\n    override fun compare(a: T, b: T): Int = comparator.compare(b,
a)\n    @Suppress("VIRTUAL_MEMBER_HIDDEN")\n    fun reversed(): Comparator<T> =
comparator\n}\n\nprivate object NaturalOrderComparator : Comparator<Comparable<Any>> {\n    override fun
compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)\n}\n\n@Suppress("VIRTUAL_MEMBER_HIDDEN")\n    fun reversed(): Comparator<Comparable<Any>> =
ReverseOrderComparator\n}\n\nprivate object ReverseOrderComparator : Comparator<Comparable<Any>> {\n    override fun
compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)\n}\n\n@Suppress("VIRTUAL_MEMBER_HIDDEN")\n    fun reversed(): Comparator<Comparable<Any>> =
NaturalOrderComparator\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StandardKt")\npackage kotlin\n\nimport
kotlin.contracts.*\n\n/**\n * An exception is thrown to indicate that a method body remains to be implemented.\n
*/

```

```

*\npublic class NotImplementedError(message: String = "An operation is not implemented.") :
Error(message)\n\n/**\n * Always throws [NotImplementedError] stating that operation is not implemented.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline fun TODO(): Nothing = throw NotImplementedError()\n\n/**\n *
Always throws [NotImplementedError] stating that operation is not implemented.\n *\n * @param reason a string
explaining why the implementation is missing.\n *\n@kotlin.internal.InlineOnly\npublic inline fun TODO(reason:
String): Nothing = throw NotImplementedError("An operation is not implemented: $reason")\n\n\n/**\n * Calls
the specified function [block] and returns its result.\n *\n * For detailed usage information see the documentation for
[scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <R> run(block: () -> R): R {\n  contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  return block()\n}\n\n/**\n * Calls the specified
function [block] with `this` value as its receiver and returns its result.\n *\n * For detailed usage information see the
documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.run(block: T.() -> R): R {\n  contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  return block()\n}\n\n/**\n * Calls the specified
function [block] with the given [receiver] as its receiver and returns its result.\n *\n * For detailed usage information
see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> with(receiver: T, block: T.() -> R): R {\n  contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  return receiver.block()\n}\n\n/**\n * Calls the
specified function [block] with `this` value as its receiver and returns `this` value.\n *\n * For detailed usage
information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-
functions.html#apply).\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> T.apply(block: T.() -> Unit): T {\n
contract {\n  callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  block()\n  return
this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns `this` value.\n *\n
* * For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).\n
*\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic inline fun <T> T.also(block: (T) -> Unit): T {\n
contract {\n  callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  block(this)\n  return
this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns its result.\n *\n
* * For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).\n *\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> T.let(block: (T) -> R): R {\n  contract {\n  callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n  }\n  return block(this)\n}\n\n/**\n * Returns `this` value if it satisfies the
given [predicate] or `null`, if it doesn't.\n *\n * For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).\n
*\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic inline fun <T> T.takeIf(predicate: (T) -> Boolean):
T? {\n  contract {\n  callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n  }\n  return if
(predicate(this)) this else null\n}\n\n/**\n * Returns `this` value if it _does not_ satisfy the given [predicate] or
`null`, if it does.\n *\n * For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).\n
*\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic inline fun <T> T.takeUnless(predicate: (T) ->
Boolean): T? {\n  contract {\n  callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n  }\n  return if
(!predicate(this)) this else null\n}\n\n/**\n * Executes the given function [action] specified number of [times].\n *\n
* * A zero-based index of current iteration is passed as a parameter to [action].\n *\n * @sample
samples.misc.ControlFlow.repeat\n *\n@kotlin.internal.InlineOnly\npublic inline fun repeat(times: Int, action: (Int)
-> Unit) {\n  contract { callsInPlace(action) }\n  for (index in 0 until times) {\n  action(index)\n
}\n}\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.comparisons\n\n/\n\nNOTE: THIS FILE IS AUTO-GENERATED by the

```

```

GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport
kotlin.js.*\n\n/**\n * Returns the greater of two values.\n * \n * If values are equal, returns the first one.\n
*\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {\n    return if (a >= b) a
else b\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Byte, b: Byte): Byte {\n
    return maxOf(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Short, b: Short): Short
{\n    return maxOf(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Int, b: Int): Int {\n
    return JsMath.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun maxOf(a: Long, b:
Long): Long {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n * \n * If either value
is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun
maxOf(a: Float, b: Float): Float {\n    return JsMath.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n * \n * If either value
is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual
inline fun maxOf(a: Double, b: Double): Double {\n    return JsMath.max(a, b)\n}\n\n/**\n * Returns the greater of
three values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n
*\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {\n    return
maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Byte, b: Byte, c: Byte):
Byte {\n    return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of
three values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Short, b:
Short, c: Short): Short {\n    return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n *
Returns the greater of three values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline
fun maxOf(a: Int, b: Int, c: Int): Int {\n    return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of three
values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Long, b: Long,
c: Long): Long {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n * \n * If any
value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun
maxOf(a: Float, b: Float, c: Float): Float {\n    return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of three
values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Double, b: Double, c:
Double): Double {\n    return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If
there are multiple equal maximal values, returns the first of them.\n *\n@SinceKotlin("1.4")\npublic actual fun <T
: Comparable<T>> maxOf(a: T, vararg other: T): T {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return
max\n}\n\n/**\n * Returns the greater of the given values.\n *\n@SinceKotlin("1.4")\npublic actual fun
maxOf(a: Byte, vararg other: Byte): Byte {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return
max\n}\n\n/**\n * Returns the greater of the given values.\n *\n@SinceKotlin("1.4")\npublic actual fun maxOf(a:
Short, vararg other: Short): Short {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return
max\n}\n\n/**\n * Returns the greater of the given values.\n *\n@SinceKotlin("1.4")\npublic actual fun maxOf(a:
Int, vararg other: Int): Int {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n *
Returns the greater of the given values.\n *\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Long, vararg
other: Long): Long {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns
the greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Float, vararg other: Float): Float {\n    var max = a\n    for (e
in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If any
value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Double, vararg other:
Double): Double {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns
the smaller of two values.\n * \n * If values are equal, returns the first one.\n *\n@SinceKotlin("1.1")\npublic

```

```

actual fun <T : Comparable<T>> minOf(a: T, b: T): T {
    return if (a <= b) a else b
}

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Byte, b: Byte): Byte {
    return minOf(a.toInt(), b.toInt()).unsafeCast<Byte>()
}

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Short, b: Short): Short {
    return minOf(a.toInt(), b.toInt()).unsafeCast<Short>()
}

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Int, b: Int): Int {
    return JsMath.min(a, b)
}

@SinceKotlin("1.1")@Suppress("NOTHING_TO_INLINE")
public actual inline fun minOf(a: Long, b: Long): Long {
    return if (a <= b) a else b
}

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Float, b: Float): Float {
    return JsMath.min(a, b)
}

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Double, b: Double): Double {
    return JsMath.min(a, b)
}

@SinceKotlin("1.1")
public actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {
    return minOf(a, minOf(b, c))
}

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {
    return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()
}

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Short, b: Short, c: Short): Short {
    return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()
}

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Int, b: Int, c: Int): Int {
    return JsMath.min(a, b, c)
}

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Long, b: Long, c: Long): Long {
    return minOf(a, minOf(b, c))
}

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Float, b: Float, c: Float): Float {
    return JsMath.min(a, b, c)
}

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Double, b: Double, c: Double): Double {
    return JsMath.min(a, b, c)
}

@SinceKotlin("1.4")
public actual fun <T : Comparable<T>> minOf(a: T, vararg other: T): T {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

@SinceKotlin("1.4")
public actual fun minOf(a: Byte, vararg other: Byte): Byte {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

@SinceKotlin("1.4")
public actual fun minOf(a: Short, vararg other: Short): Short {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

@SinceKotlin("1.4")
public actual fun minOf(a: Int, vararg other: Int): Int {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

@SinceKotlin("1.4")
public actual fun minOf(a: Long, vararg other: Long): Long {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

@SinceKotlin("1.4")
public actual fun minOf(a: Float, vararg other: Float): Float {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

@SinceKotlin("1.4")
public actual fun minOf(a: Double, vararg other: Double): Double {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

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 */
@npackage kotlin
@nimport kotlin.experimental.*
@nimport kotlin.jvm.*
@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)@JvmInline

```

```

blic value class ULong @PublishedApi internal constructor(@PublishedApi internal val data: Long) :
Comparable<ULong> {\n\n companion object {\n\n /**\n\n * A constant holding the minimum value an
instance of ULong can have.\n\n */\n\n public const val MIN_VALUE: ULong = ULong(0)\n\n /**\n\n * A constant holding the maximum value an instance of ULong can have.\n\n */\n\n public const val
MAX_VALUE: ULong = ULong(-1)\n\n /**\n\n * The number of bytes used to represent an instance of
ULong in a binary form.\n\n */\n\n public const val SIZE_BYTES: Int = 8\n\n /**\n\n * The number of
bits used to represent an instance of ULong in a binary form.\n\n */\n\n public const val SIZE_BITS: Int = 64\n\n
}\n\n /**\n\n * Compares this value with the specified value for order.\n\n * Returns zero if this value is equal to
the specified other value, a negative number if it's less than other,\n\n * or a positive number if it's greater than
other.\n\n */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun compareTo(other: UByte): Int =
this.compareTo(other.toULong())\n\n /**\n\n * Compares this value with the specified value for order.\n\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n\n * or a
positive number if it's greater than other.\n\n */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun
compareTo(other: UShort): Int = this.compareTo(other.toULong())\n\n /**\n\n * Compares this value with the
specified value for order.\n\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n\n * or a positive number if it's greater than other.\n\n */\n\n @kotlin.internal.InlineOnly\n\n
public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toULong())\n\n /**\n\n *
Compares this value with the specified value for order.\n\n * Returns zero if this value is equal to the specified other
value, a negative number if it's less than other,\n\n * or a positive number if it's greater than other.\n\n */\n\n
@kotlin.internal.InlineOnly\n\n @Suppress("OVERRIDE_BY_INLINE")\n\n public override inline operator fun
compareTo(other: ULong): Int = ulongCompare(this.data, other.data)\n\n /** Adds the other value to this value.
*/\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun plus(other: UByte): ULong =
this.plus(other.toULong())\n\n /** Adds the other value to this value. */\n\n @kotlin.internal.InlineOnly\n\n public
inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())\n\n /** Adds the other value to this
value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun plus(other: UInt): ULong =
this.plus(other.toULong())\n\n /** Adds the other value to this value. */\n\n @kotlin.internal.InlineOnly\n\n public
inline operator fun plus(other: ULong): ULong = ULong(this.data.plus(other.data))\n\n /** Subtracts the other
value from this value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun minus(other: UByte): ULong
= this.minus(other.toULong())\n\n /** Subtracts the other value from this value. */\n\n @kotlin.internal.InlineOnly\n\n
public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\n\n /** Subtracts the other
value from this value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun minus(other: UInt): ULong =
this.minus(other.toULong())\n\n /** Subtracts the other value from this value. */\n\n @kotlin.internal.InlineOnly\n\n
public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n\n /** Multiplies
this value by the other value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun times(other: UByte):
ULong = this.times(other.toULong())\n\n /** Multiplies this value by the other value. */\n\n @kotlin.internal.InlineOnly\n\n
public inline operator fun times(other: UShort): ULong =
this.times(other.toULong())\n\n /** Multiplies this value by the other value. */\n\n @kotlin.internal.InlineOnly\n\n
public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\n\n /** Multiplies this value by
the other value. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun times(other: ULong): ULong =
ULong(this.data.times(other.data))\n\n /** Divides this value by the other value, truncating the result to an integer
that is closer to zero. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun div(other: UByte): ULong =
this.div(other.toULong())\n\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun div(other: UShort): ULong =
this.div(other.toULong())\n\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun div(other: UInt): ULong =
this.div(other.toULong())\n\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. */\n\n @kotlin.internal.InlineOnly\n\n public inline operator fun div(other: ULong): ULong =
ulongDivide(this, other)\n\n /**\n\n * Calculates the remainder of truncating division of this value by the other

```

```

value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())\n /**\n * Calculates the remainder
of truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n
*/\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): ULong =
this.rem(other.toULong())\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())\n /**\n * Calculates the remainder of
truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n
*/\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong = ulongRemainder(this,
other)\n\n /**\n * Divides this value by the other value, flooring the result to an integer that is closer to negative
infinity.\n * \n * For unsigned types, the results of flooring division and truncating division are the same.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UByte): ULong =
this.floorDiv(other.toULong())\n /**\n * Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating
division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UShort): ULong
= this.floorDiv(other.toULong())\n /**\n * Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating
division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UInt): ULong =
this.floorDiv(other.toULong())\n /**\n * Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating
division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: ULong): ULong =
div(other)\n\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n *
The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and
truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte):
UByte = this.mod(other.toULong()).toUByte()\n /**\n * Calculates the remainder of flooring division of this
value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the
remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun mod(other: UShort): UShort = this.mod(other.toULong()).toUShort()\n /**\n * Calculates the
remainder of flooring division of this value by the other value.\n * \n * The result is always less than the
divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt =
this.mod(other.toULong()).toUInt()\n /**\n * Calculates the remainder of flooring division of this value by the
other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders
of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline
fun mod(other: ULong): ULong = rem(other)\n\n /**\n * Returns this value incremented by one.\n * \n *
@sample samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n public inline operator fun inc():
ULong = ULong(data.inc())\n\n /**\n * Returns this value decremented by one.\n * \n *
@sample samples.misc.Builtins.dec\n */\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): ULong =
ULong(data.dec())\n\n /**\n * Creates a range from this value to the specified [other] value.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: ULong): ULongRange =
ULongRange(this, other)\n\n /**\n * Shifts this value left by the [bitCount] number of bits.\n * \n * Note
that only the six lowest-order bits of the [bitCount] are used as the shift distance.\n * \n * The shift distance
actually used is therefore always in the range `0..63`.\n */\n @kotlin.internal.InlineOnly\n public inline infix fun
shl(bitCount: Int): ULong = ULong(data shl bitCount)\n\n /**\n * Shifts this value right by the [bitCount]
number of bits, filling the leftmost bits with zeros.\n * \n * Note that only the six lowest-order bits of the
[bitCount] are used as the shift distance.\n * \n * The shift distance actually used is therefore always in the
range `0..63`.\n */\n @kotlin.internal.InlineOnly\n public inline infix fun shr(bitCount: Int): ULong = ULong(data
ushr bitCount)\n\n /**\n * Performs a bitwise AND operation between the two values.\n */

```



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value, \n * whereas the most significant 48 bits are filled with the sign bit of this value. \n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun Short.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Int] value to [ULong].\n
*\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Int`. \n *\n *
The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value, \n * whereas
the most significant 32 bits are filled with the sign bit of this value. \n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun Int.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Long] value to [ULong].\n
*\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`. \n *\n
* The resulting `ULong` value has the same binary representation as this `Long` value. \n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun Long.toULong(): ULong = ULong(this)\n/**\n * Converts this [Float] value to [ULong]. \n *\n *
The fractional part, if any, is rounded down towards zero. \n * Returns zero if this `Float` value is negative or `NaN`,
[ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`. \n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())\n/**\n * Converts this [Double]
value to [ULong]. \n *\n * The fractional part, if any, is rounded down towards zero. \n * Returns zero if this
`Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`. \n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun Double.toULong(): ULong = doubleToULong(this)\n", "/*\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file. \n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the list. \n * \n *
Throws an [IndexOutOfBoundsException] if the size of this list is less than 1. \n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component1(): T {\n    return
get(0)\n}\n\n/**\n * Returns 2nd *element* from the list. \n * \n * Throws an [IndexOutOfBoundsException] if the
size of this list is less than 2. \n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
List<T>.component2(): T {\n    return get(1)\n}\n\n/**\n * Returns 3rd *element* from the list. \n * \n * Throws an
[IndexOutOfBoundsException] if the size of this list is less than 3. \n *\n@kotlin.internal.InlineOnly\npublic inline
operator fun <T> List<T>.component3(): T {\n    return get(2)\n}\n\n/**\n * Returns 4th *element* from the list. \n
* \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 4. \n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component4(): T {\n    return
get(3)\n}\n\n/**\n * Returns 5th *element* from the list. \n * \n * Throws an [IndexOutOfBoundsException] if the
size of this list is less than 5. \n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
List<T>.component5(): T {\n    return get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the collection. \n
*\n@public operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {\n    if
(this is Collection)\n        return contains(element)\n    return indexOf(element) >= 0\n}\n\n/**\n * Returns an
element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this
collection. \n * \n * @sample samples.collections.Collections.Elements.elementAt\n *\n@public fun <T>
Iterable<T>.elementAt(index: Int): T {\n    if (this is List)\n        return get(index)\n    return
elementAtOrElse(index) { throw IndexOutOfBoundsException("Collection doesn't contain element at index
$index.") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if
the [index] is out of bounds of this list. \n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAt(index: Int): T {\n    return
get(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function

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if the [index] is out of bounds of this collection.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\npublic fun <T>
Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n  if (this is List)\n    return
this.getOrElse(index, defaultValue)\n  if (index < 0)\n    return defaultValue(index)\n  val iterator = iterator()\n
  var count = 0\n  while (iterator.hasNext()) {\n    val element = iterator.next()\n    if (index == count++)\n    return element\n  }\n  return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
<T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this collection.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\npublic fun <T>
Iterable<T>.elementAtOrNull(index: Int): T? {\n  if (this is List)\n    return this.getOrElse(index)\n  if (index <
0)\n    return null\n  val iterator = iterator()\n  var count = 0\n  while (iterator.hasNext()) {\n    val element =
iterator.next()\n    if (index == count++)\n    return element\n  }\n  return null\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this list.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
<T> List<T>.elementAtOrNull(index: Int): T? {\n  return this.getOrElse(index)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.find(predicate: (T) -> Boolean): T? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.find(predicate: (T) -> Boolean): T? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T>
List<T>.find(predicate: (T) -> Boolean): T? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns first
element.\n * @throws [NoSuchElementException] if the collection is empty.\n *^\npublic fun <T>
Iterable<T>.first(): T {\n  when (this) {\n    is List -> return this.first()\n    else -> {\n      val iterator =
iterator()\n      if (!iterator.hasNext())\n        throw NoSuchElementException("Collection is empty.")\n      return iterator.next()\n    }\n  }\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException]
if the list is empty.\n *^\npublic fun <T> List<T>.first(): T {\n  if (isEmpty())\n    throw
NoSuchElementException("List is empty.")\n  return this[0]\n}\n\n/**\n * Returns the first element matching the
given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *^\npublic inline fun <T>
Iterable<T>.first(predicate: (T) -> Boolean): T {\n  for (element in this) if (predicate(element)) return element\n
throw NoSuchElementException("Collection contains no element matching the predicate.")\n}\n\n/**\n * Returns
the first non-null value produced by [transform] function being applied to elements of this collection in iteration
order.\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*^\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>
Iterable<T>.firstNotNullOf(transform: (T) -> R?): R {\n  return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the collection was transformed to a non-null value.")\n}\n\n/**\n *
Returns the first non-null value produced by [transform] function being applied to elements of this collection in
iteration order.\n * or `null` if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*^\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>
Iterable<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n  for (element in this) {\n    val result =
transform(element)\n    if (result != null) {\n      return result\n    }\n  }\n  return null\n}\n\n/**\n *

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Returns the first element, or `null` if the collection is empty.
public fun <T> Iterable<T>.firstOrNull(): T? {
    when (this) {
        is List -> {
            if (isEmpty()) return null
            else return this[0]
        }
        else -> {
            val iterator = iterator()
            if (!iterator.hasNext()) return null
            return iterator.next()
        }
    }
}

Returns the first element, or `null` if the list is empty.
public fun <T> List<T>.firstOrNull(): T? {
    return if (isEmpty()) null else this[0]
}

Returns the first element matching the given [predicate], or `null` if element was not found.
public inline fun <T> Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {
    for (element in this) if (predicate(element)) return element
    return null
}

Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.
@kotlin.internal.InlineOnly
public inline fun <T> List<T>.getOrNull(index: Int, defaultValue: (Int) -> T): T {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.
@sample samples.collections.Collections.Elements.getOrNull
public fun <T> List<T>.getOrNull(index: Int): T? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

Returns first index of [element], or -1 if the collection does not contain element.
public fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.indexOf(element: T): Int {
    if (this is List) return this.indexOf(element)
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (element == item) return index
        index++
    }
    return -1
}

Returns first index of [element], or -1 if the list does not contain element.
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in some cases
public fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOf(element: T): Int {
    return indexOf(element)
}

Returns index of the first element matching the given [predicate], or -1 if the collection does not contain such element.
public inline fun <T> Iterable<T>.indexOfFirst(predicate: (T) -> Boolean): Int {
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (predicate(item)) return index
        index++
    }
    return -1
}

Returns index of the first element matching the given [predicate], or -1 if the list does not contain such element.
public inline fun <T> List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {
    var index = 0
    for (item in this) {
        if (predicate(item)) return index
        index++
    }
    return -1
}

Returns index of the last element matching the given [predicate], or -1 if the collection does not contain such element.
public inline fun <T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {
    var lastIndex = -1
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (predicate(item)) lastIndex = index
        index++
    }
    return lastIndex
}

Returns index of the last element matching the given [predicate], or -1 if the list does not contain such element.
public inline fun <T> List<T>.indexOfLast(predicate: (T) -> Boolean): Int {
    val iterator = this.listIterator(size)
    while (iterator.hasPrevious()) {
        if (predicate(iterator.previous())) return iterator.nextIndex()
    }
    return -1
}

Returns the last element.
@throws NoSuchElementException if the collection is empty.
@sample samples.collections.Collections.Elements.last
public fun <T> Iterable<T>.last(): T {
    when (this) {
        is List -> return this.last()
        else -> {
            val iterator = iterator()
            if (!iterator.hasNext()) throw NoSuchElementException("Collection is empty.")
            var last = iterator.next()
            while (iterator.hasNext()) last = iterator.next()
            return last
        }
    }
}

Returns the last element.
@throws NoSuchElementException if the list is empty.
@sample samples.collections.Collections.Elements.last
public fun <T> List<T>.last(): T {
    if (isEmpty()) throw NoSuchElementException("List is empty.")
    return this[lastIndex]
}

Returns the last element matching the given [predicate].
@throws NoSuchElementException if no such element is found.
@sample samples.collections.Collections.Elements.last
public inline fun <T> Iterable<T>.last(predicate: (T) -> Boolean): T {
    var last: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            last = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Collection contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST") return last as T
}

Returns the last element matching the given [predicate].
@throws NoSuchElementException if no such element is found.
@sample

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samples.collections.Collections.Elements.last\n *^npublic inline fun <T> List<T>.last(predicate: (T) -> Boolean): T
{\n  val iterator = this.listIterator(size)\n  while (iterator.hasPrevious()) {\n    val element = iterator.previous()\n    if (predicate(element)) return element\n  }\n  throw NoSuchElementException("List contains no element\n  matching the predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the collection does not contain\n  element.\n *^npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n  if\n  (this is List) return this.lastIndexOf(element)\n  var lastIndex = -1\n  var index = 0\n  for (item in this) {\n    checkIndexOverflow(index)\n    if (element == item)\n      lastIndex = index\n    index++\n  }\n  return\n  lastIndex\n}\n\n/**\n * Returns last index of [element], or -1 if the list does not contain element.\n *^n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in\n  some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {\n  return\n  lastIndexOf(element)\n}\n\n/**\n * Returns the last element, or `null` if the collection is empty.\n * \n * @sample\n  samples.collections.Collections.Elements.last\n *^npublic fun <T> Iterable<T>.lastOrNull(): T? {\n  when (this)\n  {\n    is List -> return if (isEmpty()) null else this[size - 1]\n    else -> {\n      val iterator = iterator()\n      if (!iterator.hasNext())\n        return null\n      var last = iterator.next()\n      while (iterator.hasNext())\n        last = iterator.next()\n      return last\n    }\n  }\n}\n\n/**\n * Returns the last element, or `null` if the\n  list is empty.\n * \n * @sample\n  samples.collections.Collections.Elements.last\n *^npublic fun <T>\n  List<T>.lastOrNull(): T? {\n  return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element\n  matching the given [predicate], or `null` if no such element was found.\n * \n * @sample\n  samples.collections.Collections.Elements.last\n *^npublic inline fun <T> Iterable<T>.lastOrNull(predicate: (T) ->\n  Boolean): T? {\n  var last: T? = null\n  for (element in this) {\n    if (predicate(element)) {\n      last =\n      element\n    }\n  }\n  return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null`\n  if no such element was found.\n * \n * @sample\n  samples.collections.Collections.Elements.last\n *^npublic inline\n  fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n  val iterator = this.listIterator(size)\n  while\n  (iterator.hasPrevious()) {\n    val element = iterator.previous()\n    if (predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns a random element from this collection.\n * \n * @throws\n  NoSuchElementException if this collection is empty.\n *^n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n  return\n  random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of\n  randomness.\n * \n * @throws\n  NoSuchElementException if this collection is empty.\n *^n@SinceKotlin("1.3")\npublic fun <T> Collection<T>.random(random: Random): T {\n  if (isEmpty())\n  throw\n  NoSuchElementException("Collection is empty.")\n  return\n  elementAt(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this collection, or `null` if this collection is empty.\n *^n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\n  inline fun <T> Collection<T>.randomOrNull(): T? {\n  return\n  randomOrNull(Random)\n}\n\n/**\n * Returns a\n  random element from this collection using the specified source of randomness, or `null` if this collection is empty.\n *^n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>\n  Collection<T>.randomOrNull(random: Random): T? {\n  if (isEmpty())\n    return\n    null\n  return\n  elementAt(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the collection is\n  empty or has more than one element.\n *^npublic fun <T> Iterable<T>.single(): T {\n  when (this) {\n    is List -\n    > return\n    this.single()\n    else -> {\n      val iterator = iterator()\n      if (!iterator.hasNext())\n        throw\n        NoSuchElementException("Collection is empty.")\n      val single = iterator.next()\n      if\n      (iterator.hasNext())\n        throw\n        IllegalArgumentException("Collection has more than one element.")\n      return\n      single\n    }\n  }\n}\n\n/**\n * Returns the single element, or throws an exception if the list is empty or\n  has more than one element.\n *^npublic fun <T> List<T>.single(): T {\n  return\n  when (size) {\n    0 -> throw\n    NoSuchElementException("List is empty.")\n    1 -> this[0]\n    else -> throw\n    IllegalArgumentException("List has more than one element.")\n  }\n}\n\n/**\n * Returns the single element\n  matching the given [predicate], or throws exception if there is no or more than one matching element.\n *^npublic\n  inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {\n  var single: T? = null\n  var found = false\n
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for (element in this) {\n    if (predicate(element)) {\n        if (found) throw
IllegalArgumentException("Collection contains more than one matching element.")\n        single = element\n        found = true\n    } } if (!found) throw NoSuchElementException("Collection contains no element
matching the predicate.")\n    @SuppressWarnings("UNCHECKED_CAST")\n    return single as T\n}\n\n/**\n * Returns
single element, or `null` if the collection is empty or has more than one element.\n */\npublic fun <T>
Iterable<T>.singleOrNull(): T? {\n    when (this) {\n        is List -> return if (size == 1) this[0] else null\n        else ->
{\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            val single =
iterator.next()\n            if (iterator.hasNext())\n                return null\n            return single\n        } }\n}\n\n/**\n * Returns single element, or `null` if the list is empty or has more than one element.\n */\npublic fun <T>
List<T>.singleOrNull(): T? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element
matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic
inline fun <T> Iterable<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n    var single: T? = null\n    var found =
false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single =
element\n            found = true\n        } }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a list
containing all elements except first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n *
@sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Iterable<T>.drop(n: Int):
List<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    if (n == 0) return toList()\n    val list: ArrayList<T>\n    if (this is Collection<*>) {\n        val resultSize = size - n\n        if (resultSize <= 0)\n            return emptyList()\n        if (resultSize == 1)\n            return listOf(last())\n        list = ArrayList<T>(resultSize)\n        if (this is List<T>) {\n            if (this is RandomAccess) {\n                for (index in n until size)\n                    list.add(this[index])\n            } else {\n                for (item in listIterator(n))\n                    list.add(item)\n            }\n            return list\n        } }\n    else {\n        list = ArrayList<T>()\n        var count = 0\n        for (item in this) {\n            if (count >= n) list.add(item) else ++count\n        }\n        return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list
containing all elements except last [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n *
@sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> List<T>.dropLast(n: Int):
List<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n */\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T>
List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (!isEmpty()) {\n        val iterator =
listIterator(size)\n        while (iterator.hasPrevious()) {\n            if (!predicate(iterator.previous())) {\n                return
take(iterator.nextIndex() + 1)\n            } }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing
all elements except first elements that satisfy the given [predicate].\n */\n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Iterable<T>.dropWhile(predicate:
(T) -> Boolean): List<T> {\n    var yielding = false\n    val list = ArrayList<T>()\n    for (item in this)\n        if
(yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }
\n    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Iterable<T>.filter(predicate: (T)
-> Boolean): List<T> {\n    return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only
elements matching the given [predicate].\n */\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n */\n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun <T>
Iterable<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n    return
filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to
the given [destination].\n */\n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n */\n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C : MutableCollection<in T>>
Iterable<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n    forEachIndexed { index,
element -> }\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n *

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Returns a list containing all elements that are instances of specified type parameter R.
samples.collections.Collections.Filtering.filterIsInstance
public inline fun <reified R>
Iterable<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {
    return filterIsInstanceTo(ArrayList<R>())
}
Append all elements that are instances of specified type parameter R to the given [destination].
samples.collections.Collections.Filtering.filterIsInstanceTo
public inline fun <reified R, C :
MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C {
    for (element in this) if (element is R) destination.add(element)
    return destination
}
Returns a list containing all elements not matching the given [predicate].
samples.collections.Collections.Filtering.filter
public inline fun <T>
Iterable<T>.filterNot(predicate: (T) -> Boolean): List<T> {
    return filterNotTo(ArrayList<T>(), predicate)
}
Returns a list containing all elements that are not `null`.
samples.collections.Collections.Filtering.filterNotNull
public fun <T : Any> Iterable<T?>.filterNotNull():
List<T> {
    return filterNotNullTo(ArrayList<T>())
}
Append all elements that are not `null` to the given [destination].
samples.collections.Collections.Filtering.filterNotNullTo
public fun <C : MutableCollection<in T>, T : Any> Iterable<T?>.filterNotNullTo(destination: C): C {
    for (element in this) if (element != null) destination.add(element)
    return destination
}
Append all elements not matching the given [predicate] to the given [destination].
samples.collections.Collections.Filtering.filterTo
public inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterNotTo(destination: C, predicate: (T) ->
Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}
Append all elements matching the given [predicate] to the given [destination].
samples.collections.Collections.Filtering.filterTo
public inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}
Returns a list containing elements at indices in the specified [indices] range.
List<T>.slice(indices: IntRange): List<T> {
    if (indices.isEmpty()) return listOf()
    return this.subList(indices.start, indices.endInclusive + 1).toList()
}
Returns a list containing elements at specified [indices].
List<T>.slice(indices:
Iterable<Int>): List<T> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<T>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}
Returns a list containing first [n] elements.
@throws IllegalArgumentException if [n] is negative.
samples.collections.Collections.Transformations.take
public fun <T> Iterable<T>.take(n: Int):
List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (this is Collection<T>) {
        if (n >= size) return toList()
        if (n == 1) return listOf(first())
    }
    var count = 0
    val list = ArrayList<T>(n)
    for (item in this) {
        list.add(item)
        if (++count == n) break
    }
    return list.optimizeReadOnlyList()
}
Returns a list containing last [n] elements.
@throws IllegalArgumentException if [n] is negative.
samples.collections.Collections.Transformations.take
public fun <T> List<T>.takeLast(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(last())
    val list = ArrayList<T>(n)
    if (this is RandomAccess) {
        for (index in size - n until size)
            list.add(this[index])
    } else {
        for (item in listIterator(size - n))
            list.add(item)
    }
    return list
}
Returns a list containing last elements satisfying the given [predicate].
samples.collections.Collections.Transformations.take
public inline fun <T> List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {
    if (isEmpty()) return emptyList()
    val iterator = listIterator(size)
    while (iterator.hasPrevious()) {
        if (!predicate(iterator.previous())) {
            iterator.next()
            val expectedSize = size - iterator.nextIndex()
            if (expectedSize == 0) return emptyList()
            return ArrayList<T>(expectedSize).apply {
                while (iterator.hasNext())
                    add(iterator.next())
            }
        }
    }
    return toList()
}
Returns a list containing first elements satisfying the given [predicate].
samples.collections.Collections.Transformations.take
public inline fun <T> Iterable<T>.takeWhile(predicate:

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(T) -> Boolean): List<T> {\n  val list = ArrayList<T>()\n  for (item in this) {\n    if (!predicate(item))\n    break\n    list.add(item)\n  }\n  return list}\n\n/n/n/**\n * Reverses elements in the list in-place.\n */\n\npublic
expect fun <T> MutableList<T>.reverse(): Unit\n/n/n/**\n * Returns a list with elements in reversed order.\n
*/\n\npublic fun <T> Iterable<T>.reversed(): List<T> {\n  if (this is Collection && size <= 1) return toList()\n  val
list = toMutableList()\n  list.reverse()\n  return list}\n\n/n/n/**\n * Randomly shuffles elements in this list in-place
using the specified [random] instance as the source of randomness.\n */\n\n * See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\_shuffle#The\_modern\_algorithm\n
*/\n\n@SinceKotlin("1.3")\n\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\n  for (i in lastIndex
downTo 1) {\n    val j = random.nextInt(i + 1)\n    this[j] = this.set(i, this[j])\n  }\n}\n\n/n/n/**\n * Sorts elements
in the list in-place according to natural sort order of the value returned by specified [selector] function.\n */\n\n * The
sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n\npublic
inline fun <T, R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n  if (size > 1)
sortBy(compareBy(selector))\n}\n\n/n/n/**\n * Sorts elements in the list in-place descending according to natural sort
order of the value returned by specified [selector] function.\n */\n\n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n */\n\npublic inline fun <T, R : Comparable<R>>
MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n  if (size > 1)
sortByDescending(compareByDescending(selector))\n}\n\n/n/n/**\n * Sorts elements in the list in-place descending according
to their natural sort order.\n */\n\n * The sort is _stable_. It means that equal elements preserve their order relative
to each other after sorting.\n */\n\npublic fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {\n
sortBy(reverseOrder())\n}\n\n/n/n/**\n * Returns a list of all elements sorted according to their natural sort order.\n
*/\n\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n
*/\n\npublic fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {\n  if (this is Collection) {\n    if (size <= 1)
return this.toList()\n    @Suppress("UNCHECKED_CAST")\n    return (toArray<Comparable<T>>())
as Array<T>).apply { sortBy() }.asList()\n  }\n  return toMutableList().apply { sortBy() }\n}\n\n/n/n/**\n * Returns a list of
all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\n\n * The
sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n\n *
@sample samples.collections.Collections.Sorting.sortedBy\n */\n\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n  return
sortedWith(compareBy(selector))\n}\n\n/n/n/**\n * Returns a list of all elements sorted descending according to natural
sort order of the value returned by specified [selector] function.\n */\n\n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n */\n\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n  return
sortedWith(compareByDescending(selector))\n}\n\n/n/n/**\n * Returns a list of all elements sorted descending
according to their natural sort order.\n */\n\n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n */\n\npublic fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T>
{\n  return sortedWith(reverseOrder())\n}\n\n/n/n/**\n * Returns a list of all elements sorted according to the specified
[comparator].\n */\n\n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n */\n\npublic fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {\n  if (this is
Collection) {\n    if (size <= 1) return this.toList()\n    @Suppress("UNCHECKED_CAST")\n    return
(toTypedArray<Any?>() as Array<T>).apply { sortByWith(comparator) }.asList()\n  }\n  return
toMutableList().apply { sortByWith(comparator) }\n}\n\n/n/n/**\n * Returns an array of Boolean containing all of the
elements of this collection.\n */\n\npublic fun Collection<Boolean>.toBooleanArray(): BooleanArray {\n  val result
= BooleanArray(size)\n  var index = 0\n  for (element in this)\n    result[index++] = element\n  return
result}\n\n/n/n/**\n * Returns an array of Byte containing all of the elements of this collection.\n */\n\npublic fun
Collection<Byte>.toByteArray(): ByteArray {\n  val result = ByteArray(size)\n  var index = 0\n  for (element in
this)\n    result[index++] = element\n  return result}\n\n/n/n/**\n * Returns an array of Char containing all of the
elements of this collection.\n */\n\npublic fun Collection<Char>.toCharArray(): CharArray {\n  val result =
CharArray(size)\n  var index = 0\n  for (element in this)\n    result[index++] = element\n  return
}

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result\n}\n\n/**\n * Returns an array of Double containing all of the elements of this collection.\n */\npublic fun
Collection<Double>.toDoubleArray(): DoubleArray {\n    val result = DoubleArray(size)\n    var index = 0\n    for
(element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Float containing
all of the elements of this collection.\n */\npublic fun Collection<Float>.toFloatArray(): FloatArray {\n    val result
= FloatArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return
result\n}\n\n/**\n * Returns an array of Int containing all of the elements of this collection.\n */\npublic fun
Collection<Int>.toIntArray(): IntArray {\n    val result = IntArray(size)\n    var index = 0\n    for (element in this)\n
        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Long containing all of the elements
of this collection.\n */\npublic fun Collection<Long>.toLongArray(): LongArray {\n    val result =
LongArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return
result\n}\n\n/**\n * Returns an array of Short containing all of the elements of this collection.\n */\npublic fun
Collection<Short>.toShortArray(): ShortArray {\n    val result = ShortArray(size)\n    var index = 0\n    for (element
in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns a [Map] containing key-value pairs
provided by [transform] function\n * applied to elements of the given collection.\n * \n * If any of two pairs would
have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order
of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associate\n */\npublic
inline fun <T, K, V> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n    val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K,
V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given collection indexed
by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K>
Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n    val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K,
T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and
indexed by [keySelector] functions applied to elements of the given collection.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V>
Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n    val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with
key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given
collection\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M : MutableMap<in
K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n    for (element in this) {\n
destination.put(keySelector(element), element)\n    }\n    return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and
value is provided by the [valueTransform] function applied to elements of the given collection.\n * \n * If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K,
V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n    for (element in this) {\n        destination.put(keySelector(element),
valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each element of the given collection.\n *
\n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample

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samples.collections.Collections.Transformations.associateTo\n *\npublic inline fun <T, K, V, M : MutableMap<in
K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n  for (element in this) {\n
  destination += transform(element)\n  }\n  return destination\n}\n\n/**\n * Returns a [Map] where keys are
elements from the given collection and values are\n * produced by the [valueSelector] function applied to each
element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n *\n@SinceKotlin("1.3")\npublic inline fun <K,
V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n  val result = LinkedHashMap<K,
V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))\n  return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given collection,\n * where key is the element itself and value is provided by the [valueSelector]
function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the
map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.3")\npublic inline fun <K, V, M : MutableMap<in K, in V>>
Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n/**\n * Appends all elements to
the given [destination] collection.\n *\npublic fun <T, C : MutableCollection<in T>>
Iterable<T>.toCollection(destination: C): C {\n  for (item in this) {\n  destination.add(item)\n  }\n  return
destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n *\npublic fun <T> Iterable<T>.toHashSet():
HashSet<T> {\n  return toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/**\n *
Returns a [List] containing all elements.\n *\npublic fun <T> Iterable<T>.toList(): List<T> {\n  if (this is
Collection) {\n  return when (size) {\n  0 -> emptyList()\n  1 -> listOf(if (this is List) get(0) else
iterator().next())\n  else -> this.toMutableList()\n  }\n  }\n  return
this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of
this collection.\n *\npublic fun <T> Iterable<T>.toMutableList(): MutableList<T> {\n  if (this is Collection<T>)\n
return this.toMutableList()\n  return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a new [MutableList]
filled with all elements of this collection.\n *\npublic fun <T> Collection<T>.toMutableList(): MutableList<T> {\n
return ArrayList(this)\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element
iteration order of the original collection.\n *\npublic fun <T> Iterable<T>.toSet(): Set<T> {\n  if (this is
Collection) {\n  return when (size) {\n  0 -> emptySet()\n  1 -> setOf(if (this is List) this[0] else
iterator().next())\n  else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n  }\n  }\n  return
toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single list of all elements
yielded from results of [transform] function being invoked on each element of original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <T, R>
Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <T, R>
Iterable<T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n  return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from

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results of [transform] function being invoked on each element\n * and its index in the original collection.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n *@SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIndexedSequence")\n @kotlin.internal.InlineOnly\n publi
c inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n }\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original collection, to the given
[destination].\n
*\n *@SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n @kotlin.internal.InlineOnly\n publi
c inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list =
transform(checkIndexOverflow(index++), element)\n destination.addAll(list)\n }\n return
destination\n }\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original collection, to the given [destination].\n
*\n *@SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n @kotlin.internal.InlineOnly\n npu
blic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C {\n var index = 0\n for (element in this) {\n val list =
transform(checkIndexOverflow(index++), element)\n destination.addAll(list)\n }\n return
destination\n }\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original collection, to the given [destination].\n *
*\n public inline fun <T, R, C : MutableCollection<in
R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n for (element in this) {\n val
list = transform(element)\n destination.addAll(list)\n }\n return destination\n }\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original collection, to the
given [destination].\n
*\n *@SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapSequenceTo")\n public inline fun <T, R, C :
MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination\n }\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *
*\n public inline
fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return
groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n }\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original collection\n * by the key returned by the given
[keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of
corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n public inline fun <T, K, V> Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,
List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n }\n\n/**\n * Groups elements of the original collection by the key returned by the given
[keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with
a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n *
*\n public inline fun <T, K, M : MutableMap<in K,
MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n
val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n

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list.add(element)\n } \n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function
applied to each element of the original collection\n * by the key returned by the given [keySelector] function applied
to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n
*\n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Creates a [Grouping] source from a collection to be used later with one of group-and-fold
operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin("1.1")\npublic inline fun <T, K>
Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n return object : Grouping<T, K>
{\n override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n override fun keyOf(element:
T): K = keySelector(element)\n }\n}\n\n/**\n * Returns a list containing the results of applying the given
[transform] function\n * to each element in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Iterable<T>.map(transform:
(T) -> R): List<R> {\n return mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element and its index in
the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n *
and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R>
Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n return
mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing only
the non-null results of applying the given [transform] function\n * to each element and its index in the original
collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns
the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any>
Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original collection\n * and appends only the non-null results to the given [destination].\n
*\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>>
Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed {
index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n *
Applies the given [transform] function to each element and its index in the original collection\n * and appends the
results to the given [destination].\n * @param [transform] function that takes the index of an element and the
element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C :
MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var
index = 0\n for (item in this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return
destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each element in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.mapNotNull\n */\npublic inline fun <T, R : Any>
Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original collection\n * and
appends only the non-null results to the given [destination].\n */\npublic inline fun <T, R : Any, C :
MutableCollection<in R>> Iterable<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach {
element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original collection\n * and appends the results to the given
[destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C,
transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return

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destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original collection\n * into an [IndexedValue] containing the index of that element and the element itself.\n * ^\npublic fun <T>

Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a list containing only distinct elements from the given collection.\n * \n * Among equal elements of the given collection, only the first one will be present in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source collection.\n * \n * @sample

samples.collections.Collections.Transformations.distinctAndDistinctBy\n * ^\npublic fun <T> Iterable<T>.distinct(): List<T> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the given collection\n * having distinct keys returned by the given [selector] function.\n * \n * Among elements of the given collection with equal keys, only the first one will be present in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source collection.\n * \n * @sample

samples.collections.Collections.Transformations.distinctAndDistinctBy\n * ^\npublic inline fun <T, K>

Iterable<T>.distinctBy(selector: (T) -> K): List<T> {\n val set = HashSet<K>()\n val list = ArrayList<T>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this collection and the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n * ^\npublic infix fun <T>

Iterable<T>.intersect(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this collection and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n * ^\npublic infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n * ^\npublic fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {\n return when (this) {\n is Collection<T> -> LinkedHashSet(this)\n else -> toCollection(LinkedHashSet<T>())\n }\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original collection.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n * ^\npublic infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n * ^\npublic inline fun <T>

Iterable<T>.all(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return true\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if collection has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n * ^\npublic fun <T>

Iterable<T>.any(): Boolean {\n if (this is Collection) return !isEmpty()\n return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample

samples.collections.Collections.Aggregates.anyWithPredicate\n * ^\npublic inline fun <T>

Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return false\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements in this collection.\n * ^\npublic fun <T> Iterable<T>.count(): Int {\n if (this is Collection) return size\n var count = 0\n for (element in this) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Returns the number of elements in this collection.\n * ^\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n * ^\npublic inline fun <T>

Iterable<T>.count(predicate: (T) -> Boolean): Int {\n if (this is Collection && isEmpty()) return 0\n var count = 0\n for (element in this) if (predicate(element)) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the collection is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator

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value.\n * \n public inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n  var
accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original collection.\n * \n * Returns the
specified [initial] value if the collection is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\n public inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n  var
index = 0\n  var accumulator = initial\n  for (element in this) accumulator =
operation(checkIndexOverflow(index++), accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element and current
accumulator value.\n * \n * Returns the specified [initial] value if the list is empty.\n * \n * @param [operation]
function that takes an element and current accumulator value, and calculates the next accumulator value.\n
*\n public inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n  var accumulator =
initial\n  if (!isEmpty()) {\n    val iterator = listIterator(size)\n    while (iterator.hasPrevious()) {\n
accumulator = operation(iterator.previous(), accumulator)\n    }\n  }\n  return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element with
its index in the original list and current accumulator value.\n * \n * Returns the specified [initial] value if the list is
empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current
accumulator value, and calculates the next accumulator value.\n
*\n public inline fun <T, R>
List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n  var accumulator = initial\n  if
(!isEmpty()) {\n    val iterator = listIterator(size)\n    while (iterator.hasPrevious()) {\n      val index =
iterator.previousIndex()\n      accumulator = operation(index, iterator.previous(), accumulator)\n    }\n  }\n  return
accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n
*\n @kotlin.internal.HidesMembers\n public inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {\n  for
(element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential
index with the element.\n * \n * @param [action] function that takes the index of an element and the element itself\n *
and performs the action on the element.\n
*\n public inline fun <T> Iterable<T>.forEachIndexed(action: (index: Int,
T) -> Unit): Unit {\n  var index = 0\n  for (item in this) action(checkIndexOverflow(index++),
item)\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\n public fun Iterable<Double>.max(): Double? {\n  return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\n public fun Iterable<Float>.max(): Float? {\n  return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n public fun <T : Comparable<T>> Iterable<T>.max(): T? {\n  return
maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.")
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\n public inline fun <T, R : Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R):
T? {\n  return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given
function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*\n @SinceKotlin("1.4")\n public inline fun <T, R :
Comparable<R>> Iterable<T>.maxByOrNull(selector: (T) -> R): T? {\n  val iterator = iterator()\n  if
(!iterator.hasNext()) return null\n  var maxElem = iterator.next()\n  if (!iterator.hasNext()) return maxElem\n  var
maxValue = selector(maxElem)\n  do {\n    val e = iterator.next()\n    val v = selector(e)\n    if (maxValue <
v) {\n      maxElem = e\n      maxValue = v\n    }\n  } while (iterator.hasNext())\n  return
maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to

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each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) ->
Double): Double {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var
maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the collection is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) ->
Float): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var
maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.maxOf(selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw
NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v
= selector(iterator.next())\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T)
-> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue =
selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue =
maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any
of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T)
-> Float): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue =
selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue =
maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.maxOfOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v =
selector(iterator.next())\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>

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Iterable<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var max = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(max, v) < 0) {
            max = v
        }
    }
    return max
}
// Returns the largest value according to the provided
// [comparator] among all values produced by [selector] function applied to each element in the collection or `null`
// if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R>
Iterable<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    val iterator =
    iterator()
    if (!iterator.hasNext()) return null
    var max = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(max, v) < 0) {
            max = v
        }
    }
    return max
}
// Returns the largest element or `null` if there are no
// elements.
// * If any of elements is `NaN` returns `NaN`.
@SinceKotlin("1.4")
public fun
Iterable<Double>.maxOrNull(): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        max = maxOf(max, e)
    }
    return max
}
// Returns the largest element or `null` if there are no elements.
// * If any of
// elements is `NaN` returns `NaN`.
@SinceKotlin("1.4")
public fun Iterable<Float>.maxOrNull(): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        max = maxOf(max, e)
    }
    return max
}
// Returns the largest element or `null` if there are no elements.
@SinceKotlin("1.4")
public fun <T :
Comparable<T>> Iterable<T>.maxOrNull(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}
// @Deprecated("Use maxWithOrNull instead.")
ReplaceWith("this.maxWithOrNull(comparator)")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {
    return maxWithOrNull(comparator)
}
// Returns the first element having the largest value according to the
// provided [comparator] or `null` if there are no elements.
@SinceKotlin("1.4")
public fun <T>
Iterable<T>.maxWithOrNull(comparator: Comparator<in T>): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e =
        iterator.next()
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
// @Deprecated("Use minOrNull instead.")
ReplaceWith("this.minOrNull()")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
@SinceKotlin("1.1")
public fun Iterable<Double>.min(): Double? {
    return minOrNull()
}
// @Deprecated("Use minOrNull instead.")
ReplaceWith("this.minOrNull()")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
@SinceKotlin("1.1")
public fun Iterable<Float>.min(): Float? {
    return minOrNull()
}
// @Deprecated("Use minOrNull instead.")
ReplaceWith("this.minOrNull()")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun <T : Comparable<T>> Iterable<T>.min(): T? {
    return minOrNull()
}
// @Deprecated("Use minByOrNull instead.")
ReplaceWith("this.minByOrNull(selector)")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public inline fun <T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R):
T? {
    return minByOrNull(selector)
}
// Returns the first element yielding the smallest value of the
// given function or `null` if there are no elements.
// * @sample
// samples.collections.Collections.Aggregates.minByOrNull
@SinceKotlin("1.4")
public inline fun <T, R :
Comparable<R>> Iterable<T>.minByOrNull(selector: (T) -> R): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minElem = iterator.next()
    if (!iterator.hasNext()) return minElem
    var min = selector(minElem)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (min > v) {
            minElem = e
            min = v
        }
    } while (iterator.hasNext())
    return
}

```

minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) ->
Double): Double {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var
minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the collection is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) ->
Float): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var
minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.minOf(selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw
NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v
= selector(iterator.next())\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector: (T)
-> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue =
selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue =
minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any
of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector: (T)
-> Float): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue =
selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue =
minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.minOfOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v =
selector(iterator.next())\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.minOfWith(comparator:
Comparator<in R>, selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw
NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v
= selector(iterator.next())\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each element in the collection or `null` if there are no elements.\n
*\n *\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Iterable<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) return null\n    var minValue = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(minValue, v) > 0) {\n
            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are
no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n */\n\n@SinceKotlin("1.4")\npublic fun
Iterable<Double>.minOrNull(): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var
min = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        min = minOf(min, e)\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements
is `NaN` returns `NaN`.\n *\n */\n\n@SinceKotlin("1.4")\npublic fun Iterable<Float>.minOrNull(): Float? {\n    val
iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    while (iterator.hasNext())
{\n        val e = iterator.next()\n        min = minOf(min, e)\n    }\n    return min\n}\n\n/**\n * Returns the smallest
element or `null` if there are no elements.\n *\n */\n\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>>
Iterable<T>.minOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min =
iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (min > e) min = e\n    }\n    return
min\n}\n\n@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {\n    return
minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to
the provided [comparator] or `null` if there are no elements.\n *\n */\n\n@SinceKotlin("1.4")\npublic fun <T>
Iterable<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns `true` if
the collection has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n *\n */\n\npublic fun
<T> Iterable<T>.none(): Boolean {\n    if (this is Collection) return isEmpty()\n    return
!iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *\n */\n\npublic inline fun <T>
Iterable<T>.none(predicate: (T) -> Boolean): Boolean {\n    if (this is Collection && isEmpty()) return true\n    for
(element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Performs the given [action] on each
element and returns the collection itself afterwards.\n *\n */\n\n@SinceKotlin("1.1")\npublic inline fun <T, C :
Iterable<T>> C.onEach(action: (T) -> Unit): C {\n    return apply { for (element in this) action(element)
}\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and
returns the collection itself afterwards.\n * \n * @param [action] function that takes the index of an element and the
element itself\n * and performs the action on the element.\n *\n */\n\n@SinceKotlin("1.4")\npublic inline fun <T, C :
Iterable<T>> C.onEachIndexed(action: (index: Int, T) -> Unit): C {\n    return apply { forEachIndexed(action)
}\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to
current accumulator value and each element.\n * \n * Throws an exception if this collection is empty. If the
collection can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver
is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*\n */\n\npublic inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {\n    val iterator = this.iterator()\n

```



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    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")\n    var
accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator = operation(accumulator,
iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and
applying [operation] from left to right\n * to current accumulator value and each element with its index in the
original collection.\n * \n * Throws an exception if this collection is empty. If the collection can be empty in an
expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, current accumulator value and the element itself,\n
* and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*/\npublic inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n    val
iterator = this.iterator()\n    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't
be reduced.")\n    var index = 1\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n
accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original collection.\n * \n * Returns
`null` if the collection is empty.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <S, T : S>
Iterable<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if
(!iterator.hasNext()) return null\n    var index = 1\n    var accumulator: S = iterator.next()\n    while
(iterator.hasNext()) {\n        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n
    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the collection is
empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if
(!iterator.hasNext()) return null\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n
accumulator = operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element and current accumulator
value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an expected way,\n * please use
[reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S>
List<T>.reduceRight(operation: (T, acc: S) -> S): S {\n    val iterator = listIterator(size)\n    if
(!iterator.hasPrevious())\n        throw UnsupportedOperationException("Empty list can't be reduced.")\n    var
accumulator: S = iterator.previous()\n    while (iterator.hasPrevious()) {\n        accumulator =
operation(iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting
with the last element and applying [operation] from right to left\n * to each element with its index in the original list
and current accumulator value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S>
List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n    val iterator = listIterator(size)\n    if
(!iterator.hasPrevious())\n        throw UnsupportedOperationException("Empty list can't be reduced.")\n    var
accumulator: S = iterator.previous()\n    while (iterator.hasPrevious()) {\n        val index = iterator.previousIndex()\n
        accumulator = operation(index, iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with

```

its index in the original list and current accumulator value.\n * \n * Returns `null` if the list is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.reduceRightOrNull\n *^@\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> List<T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n    val iterator = listIterator(size)\n    if (!iterator.hasPrevious())\n        return null\n    var accumulator: S = iterator.previous()\n    while (iterator.hasPrevious()) {\n        val index = iterator.previousIndex()\n        accumulator = operation(index, iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the list is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull\n *^@\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n val iterator = listIterator(size)\n if (!iterator.hasPrevious())\n return null\n var accumulator: S = iterator.previous()\n while (iterator.hasPrevious()) {\n accumulator = operation(iterator.previous(), accumulator)\n }\n return accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample

```

samples.collections.Collections.Aggregates.runningFold\n *^@\n@SinceKotlin("1.4")\npublic inline fun <T, R> Iterable<T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\n    val estimatedSize = collectionSizeOrDefault(9)\n    if (estimatedSize == 0) return listOf(initial)\n    val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original collection and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample

```

samples.collections.Collections.Aggregates.runningFold\n *^@\n@SinceKotlin("1.4")\npublic inline fun <T, R> Iterable<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n val estimatedSize = collectionSizeOrDefault(9)\n if (estimatedSize == 0) return listOf(initial)\n val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n var index = 0\n var accumulator = initial\n for (element in this) {\n accumulator = operation(index++, accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this collection.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.\n * \n * @sample

```

samples.collections.Collections.Aggregates.runningReduce\n *^@\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Iterable<T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) return emptyList()\n    var accumulator: S = iterator.next()\n    val result = ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n    while (iterator.hasNext()) {\n        accumulator = operation(accumulator, iterator.next())\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from

```

left to right
 * to each element, its index in the original collection and current accumulator value that starts with the first element of this collection.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Iterable<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) return emptyList()\n    var accumulator: S = iterator.next()\n    val result = ArrayList<S>(collectionSizeOrDefault(10)).apply {\n        add(accumulator) }\n    var index = 1\n    while (iterator.hasNext()) {\n        accumulator = operation(index++, accumulator, iterator.next())\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right  

 * to each element and current accumulator value that starts with [initial] value.  

 * Note that `acc` value passed to [operation] function should not be mutated;  

 * otherwise it would affect the previous value in resulting list.  

 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  

 * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R> Iterable<T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right  

 * to each element, its index in the original collection and current accumulator value that starts with [initial] value.  

 * Note that `acc` value passed to [operation] function should not be mutated;  

 * otherwise it would affect the previous value in resulting list.  

 * @param [operation] function that takes the index of an element, current accumulator value  

 * and the element itself, and calculates the next accumulator value.  

 * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R> Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.  

 * @Deprecated("Use sumOf instead.")  

 * ReplaceWith("this.sumOf(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.  

 * @Deprecated("Use sumOf instead.")  

 * ReplaceWith("this.sumOf(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n
```

```

    sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the collection.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> UInt): UInt {\n
var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
collection.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> ULong): ULong
{\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an
[IllegalArgumentException] if there are any `null` elements.\n\n@public fun <T : Any>
Iterable<T?>.requireNonNulls(): Iterable<T> {\n    for (element in this) {\n        if (element == null) {\n            throw
IllegalArgumentException("null element found in $this.")\n        }\n    }\n    @Suppress("UNCHECKED_CAST")\n    return this as Iterable<T>\n}\n\n/**\n * Returns an original collection
containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n
*\n@public fun <T : Any> List<T?>.requireNonNulls(): List<T> {\n    for (element in this) {\n        if (element ==
null) {\n            throw IllegalArgumentException("null element found in $this.")\n        }\n    }\n    @Suppress("UNCHECKED_CAST")\n    return this as List<T>\n}\n\n/**\n * Splits this collection into a list of
lists each not exceeding the given [size].\n * \n * The last list in the resulting list may have fewer elements than the
given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater
than the number of elements in this collection.\n * \n * @sample
samples.collections.Collections.Transformations.chunked\n\n@SinceKotlin("1.2")\npublic fun <T>
Iterable<T>.chunked(size: Int): List<List<T>> {\n    return windowed(size, size, partialWindows = true)\n}\n\n/**\n
* Splits this collection into several lists each not exceeding the given [size]\n * and applies the given [transform]
function to an each.\n * \n * @return list of results of the [transform] applied to an each list.\n * \n * Note that the
list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it
or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have fewer elements than
the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be
greater than the number of elements in this collection.\n * \n * @sample samples.text.Strings.chunkedTransform\n
*\n@SinceKotlin("1.2")\npublic fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R>
{\n    return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a list
containing all elements of the original collection without the first occurrence of the given [element].\n\n@public
operator fun <T> Iterable<T>.minus(element: T): List<T> {\n    val result =
ArrayList<T>(collectionSizeOrDefault(10))\n    var removed = false\n    return this.filterTo(result) { if (!removed
&& it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a list containing all elements of the
original collection except the elements contained in the given [elements] array.\n * \n * Before Kotlin 1.6, the
[elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements were required
to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive
invocations.\n * On JVM, you can enable this behavior back with the system property
`kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n\n@public operator fun <T>
Iterable<T>.minus(elements: Array<out T>): List<T> {\n    if (elements.isEmpty()) return this.toList()\n    val other
= elements.convertToSetForSetOperation()\n    return this.filterNot { it in other }\n}\n\n/**\n * Returns a list
containing all elements of the original collection except the elements contained in the given [elements] collection.\n
*\n * Before Kotlin 1.6, the [elements] collection may have been converted to a [HashSet] to speed up the
operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that

```

didn't change between successive invocations.

- * On JVM, you can enable this behavior back with the system property ``kotlin.collections.convert_arg_to_set_in_removeAll`` set to ``true``.

```

public operator fun <T>
Iterable<T>.minus(elements: Iterable<T>): List<T> {
    val other =
    elements.convertToSetForSetOperationWith(this)
    if (other.isEmpty())
        return this.toList()
    return
    this.filterNot { it in other }
}

```

- * Returns a list containing all elements of the original collection except the elements contained in the given [elements] sequence.
- * Before Kotlin 1.6, the [elements] sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have a correct and stable implementation of ``hashCode()`` that didn't change between successive invocations.
- * On JVM, you can enable this behavior back with the system property ``kotlin.collections.convert_arg_to_set_in_removeAll`` set to ``true``.

```

public operator fun <T> Iterable<T>.minus(elements: Sequence<T>): List<T> {
    val other =
    elements.convertToSetForSetOperation()
    if (other.isEmpty())
        return this.toList()
    return this.filterNot {
    it in other }
}

```

- * Returns a list containing all elements of the original collection without the first occurrence of the given [element].

```

@kotlin.internal.InlineOnly
public inline fun <T>
Iterable<T>.minusElement(element: T): List<T> {
    return minus(element)
}

```

- * Splits the original collection into pair of lists, where `*first*` list contains elements for which [predicate] yielded ``true``, while `*second*` list contains elements for which [predicate] yielded ``false``.

```

@sample
samples.collections.Iterables.Operations.partition
public inline fun <T> Iterable<T>.partition(predicate: (T) ->
Boolean): Pair<List<T>, List<T>> {
    val first = ArrayList<T>()
    val second = ArrayList<T>()
    for
    (element in this) {
        if (predicate(element))
            first.add(element)
        else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

```

- * Returns a list containing all elements of the original collection and then the given [element].

```

public operator fun <T> Iterable<T>.plus(element: T):
List<T> {
    if (this is Collection) return this.plus(element)
    val result = ArrayList<T>()
    result.addAll(this)
    result.add(element)
    return result
}

```

- * Returns a list containing all elements of the original collection and then the given [element].

```

public operator fun <T> Collection<T>.plus(element: T):
List<T> {
    val result = ArrayList<T>(size + 1)
    result.addAll(this)
    result.add(element)
    return
    result
}

```

- * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.

```

public operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {
    if (this is
Collection) return this.plus(elements)
    val result = ArrayList<T>()
    result.addAll(this)
    result.addAll(elements)
    return result
}

```

- * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.

```

public operator fun <T>
Collection<T>.plus(elements: Array<out T>): List<T> {
    val result = ArrayList<T>(this.size + elements.size)
    result.addAll(this)
    result.addAll(elements)
    return result
}

```

- * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.

```

public operator fun <T>
Iterable<T>.plus(elements: Iterable<T>): List<T> {
    if (this is Collection) return this.plus(elements)
    val
result = ArrayList<T>()
    result.addAll(this)
    result.addAll(elements)
    return result
}

```

- * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.

```

public operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {
    if (elements is Collection)
{
        val result = ArrayList<T>(this.size + elements.size)
        result.addAll(this)
        result.addAll(elements)
        return result
    } else {
        val result = ArrayList<T>(this)
        result.addAll(elements)
        return result
    }
}

```

- * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.

```

public operator fun <T>
Iterable<T>.plus(elements: Sequence<T>): List<T> {
    val result = ArrayList<T>()
    result.addAll(this)
    result.addAll(elements)
    return result
}

```

- * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.

```

public operator fun <T>
Collection<T>.plus(elements: Sequence<T>): List<T> {
    val result = ArrayList<T>(this.size + 10)
    result.addAll(this)
    result.addAll(elements)
    return result
}

```

- * Returns a list containing all elements of the original collection and then the given [element].

```

@kotlin.internal.InlineOnly
public inline fun <T>
Iterable<T>.plusElement(element: T): List<T> {
    return plus(element)
}

```

- * Returns a list containing all

elements of the original collection and then the given [element].

```

@kotlin.internal.InlineOnly
public inline fun
<T> Collection<T>.plusElement(element: T): List<T> {
    return plus(element)
}

```

Returns a list of snapshots of the window of the given [size] sliding along this collection with the given [step], where each snapshot is a list. Several last lists may have fewer elements than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this collection.

@param size the number of elements to take in each window

@param step the number of elements to move the window forward by on an each step, by default 1

@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

@sample

```

samples.collections.Sequences.Transformations.takeWindows

```

Since Kotlin("1.2")

```

public fun <T>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {
    checkWindowSizeStep(size, step)
    if (this is RandomAccess && this is List) {
        val thisSize = this.size
        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
        val result = ArrayList<List<T>>(resultCapacity)
        var index = 0
        while (index in 0 until thisSize) {
            val windowSize = size.coerceAtMost(thisSize - index)
            if (windowSize < size && !partialWindows) break
            result.add(List(windowSize) { this[it + index] })
            index += step
        }
        return result
    }
    val result = ArrayList<List<T>>()
    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {
        result.add(it)
    }
    return result
}

```

Returns a list of results of applying the given [transform] function to an each list representing a view over the window of the given [size] sliding along this collection with the given [step]. Note that the list passed to the [transform] function is ephemeral and is valid only inside that function. You should not store it or allow it to escape in some way, unless you made a snapshot of it. Several last lists may have fewer elements than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this collection.

@param size the number of elements to take in each window

@param step the number of elements to move the window forward by on an each step, by default 1

@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

@sample

```

samples.collections.Sequences.Transformations.averageWindows

```

Since Kotlin("1.2")

```

public fun <T, R>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R):
List<R> {
    checkWindowSizeStep(size, step)
    if (this is RandomAccess && this is List) {
        val thisSize = this.size
        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
        val result = ArrayList<R>(resultCapacity)
        val window = MovingSubList(this)
        var index = 0
        while (index in 0 until thisSize) {
            val windowSize = size.coerceAtMost(thisSize - index)
            if (!partialWindows && windowSize < size) break
            window.move(index, index + windowSize)
            result.add(transform(window))
            index += step
        }
        return result
    }
    val result = ArrayList<R>()
    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {
        result.add(transform(it))
    }
    return result
}

```

Returns a list of pairs built from the elements of `this` collection and the [other] array with the same index. The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterable

```

public infix fun <T, R> Iterable<T>.zip(other: Array<out R>): List<Pair<T, R>>

```

return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of values built from the elements of `this` collection and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterableWithTransform

```

public inline fun <T, R, V> Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V>

```

{
    val arraySize = other.size
    val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in this) {
        if (i >= arraySize) break
        list.add(transform(element, other[i++]))
    }
    return list
}

```

Returns a list of pairs built from the elements of `this` collection and [other] collection with the same index. The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterable

```

public infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>>

```

return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of values built from the elements of `this` collection and the [other] collection

with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample

```

samples.collections.Iterables.Operations.zipIterableWithTransform\n *
\npublic inline fun <T, R, V>
Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n
val first = iterator()\n
val second = other.iterator()\n
val list = ArrayList<V>(minOf(collectionSizeOrDefault(10),
other.collectionSizeOrDefault(10)))\n
while (first.hasNext() && second.hasNext()) {\n
list.add(transform(first.next(), second.next()))\n
}\n
return list\n}
\n\n/**
 * Returns a list of pairs of each two adjacent elements in this collection.
\n * \n * The returned list is empty if this collection contains less than two elements.
\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNext\n
*/
\n@SinceKotlin("1.2")\npublic fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {\n
return zipWithNext { a, b -> a to b }\n}
\n\n/**
 * Returns a list containing the results of applying the given [transform] function
\n * to an each pair of two adjacent elements in this collection.
\n * \n * The returned list is empty if this collection contains less than two elements.
\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n
*/
\n@SinceKotlin("1.2")\npublic inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {\n
val iterator = iterator()\n
if (!iterator.hasNext()) return emptyList()\n
val result = mutableListOf<R>()\n
var current = iterator.next()\n
while (iterator.hasNext()) {\n
val next = iterator.next()\n
result.add(transform(current, next))\n
current = next\n
}\n
return result\n}
\n\n/**
 * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").
\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n
*/
\npublic fun <T, A : Appendable> Iterable<T>.joinTo(buffer: A, separator: CharSequence = '\n', prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n
var count = 0\n
for (element in this) {\n
if (++count > 1) buffer.append(separator)\n
if (limit < 0 || count <= limit) {\n
buffer.appendElement(element, transform)\n
} else break\n
}\n
if (limit >= 0 && count > limit) buffer.append(truncated)\n
buffer.append(postfix)\n
return buffer\n}
\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").
\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n
*/
\npublic fun <T> Iterable<T>.joinToString(separator: CharSequence = '\n', prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {\n
return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}
\n\n/**
 * Returns this collection as an [Iterable].
\n * \n * @kotlin.internal.InlineOnly\n
\npublic inline fun <T> Iterable<T>.asIterable(): Iterable<T> {\n
return this\n}
\n\n/**
 * Creates a [Sequence] instance that wraps the original collection returning its elements when being iterated.
\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromCollection\n
*/
\npublic fun <T> Iterable<T>.asSequence(): Sequence<T> {\n
return Sequence { this.iterator() }\n}
\n\n/**
 * Returns an average value of elements in the collection.
\n * \n * @kotlin.jvm.JvmName("averageOfByte")\n
\npublic fun Iterable<Byte>.average(): Double {\n
var sum: Double = 0.0\n
var count: Int = 0\n
for (element in this) {\n
sum += element\n
checkCountOverflow(++count)\n
}\n
return if (count == 0) Double.NaN else sum / count\n}
\n\n/**
 * Returns an average value of elements in the collection.
\n * \n * @kotlin.jvm.JvmName("averageOfShort")\n
\npublic fun Iterable<Short>.average(): Double {\n
var sum: Double = 0.0\n
var count: Int = 0\n
for (element in this) {\n
sum += element\n
checkCountOverflow(++count)\n
}\n
return if (count == 0) Double.NaN else sum / count\n}
\n\n/**
 * Returns an average value of elements in the collection.
\n * \n * @kotlin.jvm.JvmName("averageOfInt")\n
\npublic fun Iterable<Int>.average(): Double {\n
var sum: Double = 0.0\n
var count: Int = 0\n
for (element in this) {\n
sum += element\n
checkCountOverflow(++count)\n
}

```

```

}\n    return if (count == 0) Double.NaN else sum / count}\n}\n\n/**\n * Returns an average value of elements in the
collection.\n */\n@kotlin.jvm.JvmName("averageOfLong")\npublic fun Iterable<Long>.average(): Double {\n
var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count}\n}\n\n/**\n * Returns
an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun
Iterable<Float>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n
sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum /
count}\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*/\n@kotlin.jvm.JvmName("averageOfDouble")\npublic fun Iterable<Double>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count}\n}\n\n/**\n * Returns
the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun
Iterable<Byte>.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return
sum}\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*/\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Iterable<Short>.sum(): Int {\n    var sum: Int = 0\n    for
(element in this) {\n        sum += element\n    }\n    return sum}\n}\n\n/**\n * Returns the sum of all elements in the
collection.\n */\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Iterable<Int>.sum(): Int {\n    var sum: Int = 0\n
for (element in this) {\n        sum += element\n    }\n    return sum}\n}\n\n/**\n * Returns the sum of all elements in
the collection.\n */\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun Iterable<Long>.sum(): Long {\n    var
sum: Long = 0L\n    for (element in this) {\n        sum += element\n    }\n    return sum}\n}\n\n/**\n * Returns the
sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun
Iterable<Float>.sum(): Float {\n    var sum: Float = 0.0f\n    for (element in this) {\n        sum += element\n    }\n
return sum}\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*/\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun Iterable<Double>.sum(): Double {\n    var sum: Double
= 0.0\n    for (element in this) {\n        sum += element\n    }\n    return sum}\n}\n\n"/\n\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport
kotlin.comparisons.naturalOrder\n\nimport kotlin.random.Random\n\n/**\n * Returns the array if it's not `null`, or an
empty array otherwise.\n */\n@sample samples.collections.Arrays.Usage.arrayOrEmpty\n\n/**\n * @kotlin.internal.InlineOnly\npublic actual inline fun <T> Array<out T>?.orEmpty(): Array<out T> = this ?:
emptyArray<T>()\n\n/**\n * Returns a *typed* array containing all of the elements of this collection.\n */\n *
Allocates an array of runtime type `T` having its size equal to the size of this collection\n * and populates the array
with the elements of this collection.\n */\n * @sample
samples.collections.Collections.Collections.collectionToTypedArray\n\n/**\n * @kotlin.internal.InlineOnly\npublic
actual inline fun <T> Collection<T>.toArray(): Array<T> =
copyToArray(this)\n\n@JsName("copyToArray")\n@PublishedApi\ninternal fun <T> copyToArray(collection:
Collection<T>): Array<T> {\n    return if (collection.asDynamic().toArray !== undefined)\n
collection.asDynamic().toArray().unsafeCast<Array<T>>()\n    else\n
copyToArrayImpl(collection).unsafeCast<Array<T>>()\n}\n\n@JsName("copyToArrayImpl")\ninternal actual fun
copyToArrayImpl(collection: Collection<*>): Array<Any?> {\n    val array = emptyArray<Any?>()\n    val iterator
= collection.iterator()\n    while (iterator.hasNext())\n        array.asDynamic().push(iterator.next())\n    return
array}\n}\n\n@JsName("copyToExistingArrayImpl")\ninternal actual fun <T> copyToArrayImpl(collection:
Collection<*>, array: Array<T>): Array<T> {\n    if (array.size < collection.size)\n        return
copyToArrayImpl(collection).unsafeCast<Array<T>>()\n    val iterator = collection.iterator()\n    var index = 0\n
while (iterator.hasNext()) {\n        array[index++] = iterator.next().unsafeCast<T>()\n    }\n    if (index < array.size)
{\n        array[index] = null.unsafeCast<T>()\n    }\n    return array}\n}\n\n/**\n * Returns an immutable list
containing only the specified object [element].\n */\n\npublic fun <T> listOf(element: T): List<T> =
arrayListOf(element)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual

```



```

inline fun <E> buildListInternal(builderAction: MutableList<E>().-> Unit): List<E> {
    return ArrayList<E>().apply(builderAction).build()
}

@PublishedApi
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
internal actual inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>().-> Unit): List<E> {
    checkBuilderCapacity(capacity)
    return ArrayList<E>(capacity).apply(builderAction).build()
}

/**
 * Returns an immutable set containing only the specified object [element].
 */
public fun <T> setOf(element: T): Set<T> = hashSetOf(element)

@PublishedApi
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
internal actual inline fun <E> buildSetInternal(builderAction: MutableSet<E>().-> Unit): Set<E> {
    return LinkedHashSet<E>().apply(builderAction).build()
}

@PublishedApi
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
internal actual inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>().-> Unit): Set<E> {
    return LinkedHashSet<E>(capacity).apply(builderAction).build()
}

/**
 * Returns an immutable map, mapping only the specified key to the specified value.
 */
public fun <K, V> mapOf(pair: Pair<K, V>): Map<K, V> = hashMapOf(pair)

@PublishedApi
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
internal actual inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>().-> Unit): Map<K, V> {
    return LinkedHashMap<K, V>().apply(builderAction).build()
}

@PublishedApi
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
internal actual inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>().-> Unit): Map<K, V> {
    return LinkedHashMap<K, V>(capacity).apply(builderAction).build()
}

/**
 * Fills the list with the provided [value].
 * Each element in the list gets replaced with the [value].
 */
@SinceKotlin("1.2")
public actual fun <T> MutableList<T>.fill(value: T): Unit {
    for (index in 0..lastIndex) {
        this[index] = value
    }
}

/**
 * Randomly shuffles elements in this list.
 * See: https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm
 */
@SinceKotlin("1.2")
public actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random())

/**
 * Returns a new list with the elements of this list randomly shuffled.
 */
@SinceKotlin("1.2")
public actual fun <T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }

/**
 * Sorts elements in the list in-place according to their natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * @sample samples.collections.Collections.Sorting.sortMutableList
 */
public actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit {
    collectionsSort(this, naturalOrder())
}

/**
 * Sorts elements in the list in-place according to the order specified with [comparator].
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * @sample samples.collections.Collections.Sorting.sortMutableListWith
 */
public actual fun <T> MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {
    collectionsSort(this, comparator)
}

private fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {
    if (list.size <= 1) return
    val array = copyToArray(list)
    sortArrayWith(array, comparator)
    for (i in 0 until array.size) {
        list[i] = array[i]
    }
}

internal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int): Array<T> {
    return arrayOfNulls<Any>(size).unsafeCast<Array<T>>()
}

@SinceKotlin("1.3")
@PublishedApi
@JsName("arrayCopy")
internal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int, startIndex: Int, endIndex: Int) {
    AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)
    val rangeSize = endIndex - startIndex
    AbstractList.checkRangeIndexes(destinationOffset, destinationOffset + rangeSize, destination.size)
    if (js("ArrayBuffer").isView(destination) && js("ArrayBuffer").isView(source)) {
        val subrange = source.asDynamic().subarray(startIndex, endIndex)
        destination.asDynamic().set(subrange, destinationOffset)
    } else {
        if (source !== destination || destinationOffset <= startIndex) {
            for (index in 0 until rangeSize) {
                destination[destinationOffset + index] = source[startIndex + index]
            }
        } else {
            for (index in rangeSize - 1 downTo 0) {
                destination[destinationOffset + index] = source[startIndex + index]
            }
        }
    }
}

// no singleton map implementation in js, return map as

```

```

is\n@Suppress(\\"NOTHING_TO_INLINE\\")\ninternal actual inline fun <K, V> Map<K,
V>.toSingletonMapOrSelf(): Map<K, V> = this\n\n@Suppress(\\"NOTHING_TO_INLINE\\")\ninternal actual inline
fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> =
this.toMutableMap()\n\n\n@Suppress(\\"NOTHING_TO_INLINE\\")\ninternal actual inline fun <T> Array<out
T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =\n    if (isVarargs)\n        // no need to copy vararg
array in JS\n        this\n    else\n        this.copyOfOf()\n\n\n@PublishedApi\ninternal actual fun
checkIndexOverflow(index: Int): Int {\n    if (index < 0) {\n        throwIndexOverflow()\n    }\n    return
index\n}\n\n\n@PublishedApi\ninternal actual fun checkCountOverflow(count: Int): Int {\n    if (count < 0) {\n
throwCountOverflow()\n    }\n    return count\n}\n\n\n**\n * JS map and set implementations do not make use of
capacities or load factors.\n * \n\n@PublishedApi\ninternal actual fun mapCapacity(expectedSize: Int) =
expectedSize\n\n**\n * Checks a collection builder function capacity argument.\n * In JS no validation is made in
Map/Set constructor yet.\n * \n\n@SinceKotlin(\"1.3\")\n@PublishedApi\ninternal fun
checkBuilderCapacity(capacity: Int) {\n    require(capacity >= 0) { \"capacity must be non-negative.\"\n
}\n}\n\n\ninternal actual fun brittleContainsOptimizationEnabled(): Boolean = false\", \"/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage
kotlin.collections\n\n**\n * Returns the given iterator itself. This allows to use an instance of iterator in a `for`
loop.\n * \n\n@sample samples.collections.Iterators.iterator\n * \n\n@kotlin.internal.InlineOnly\npublic inline operator
fun <T> Iterator<T>.iterator(): Iterator<T> = this\n\n**\n * Returns an [Iterator] that wraps each element produced
by the original iterator\n * into an [IndexedValue] containing the index of that element and the element itself.\n * \n
*\n * @sample samples.collections.Iterators.withIndexIterator\n * \n\npublic fun <T> Iterator<T>.withIndex():
Iterator<IndexedValue<T>> = IndexingIterator(this)\n\n**\n * Performs the given [operation] on each element of
this [Iterator].\n * \n\n@sample samples.collections.Iterators.forEachIterator\n * \n\npublic inline fun <T>
Iterator<T>.forEach(operation: (T) -> Unit): Unit {\n    for (element in this) operation(element)\n}\n\n**\n *
Iterator transforming original `iterator` into iterator of [IndexedValue], counting index from zero.\n * \n\ninternal class
IndexingIterator<out T>(private val iterator: Iterator<T>) : Iterator<IndexedValue<T>> {\n    private var index =
0\n    final override fun hasNext(): Boolean = iterator.hasNext()\n    final override fun next(): IndexedValue<T> =
IndexedValue(checkIndexOverflow(index++), iterator.next())\n}\n\n\", \"/*\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ComparisonsKt\")\n\npackage
kotlin.comparisons\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.random.*\n\n**\n * Returns the
greater of two values.\n * \n\n * If values are equal, returns the first one.\n * \n\n@SinceKotlin(\"1.1\")\n\npublic expect
fun <T : Comparable<T>> maxOf(a: T, b: T): T\n\n**\n * Returns the greater of two values.\n
*\n\n@SinceKotlin(\"1.1\")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf(a: Byte, b: Byte):
Byte\n\n**\n * Returns the greater of two values.\n * \n\n@SinceKotlin(\"1.1\")\n\n@kotlin.internal.InlineOnly\n\npublic
expect inline fun maxOf(a: Short, b: Short): Short\n\n**\n * Returns the greater of two values.\n
*\n\n@SinceKotlin(\"1.1\")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf(a: Int, b: Int): Int\n\n**\n
* Returns the greater of two values.\n * \n\n@SinceKotlin(\"1.1\")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline
fun maxOf(a: Long, b: Long): Long\n\n**\n * Returns the greater of two values.\n * \n\n * If either value is `NaN`,
returns `NaN`.\n * \n\n@SinceKotlin(\"1.1\")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf(a: Float,
b: Float): Float\n\n**\n * Returns the greater of two values.\n * \n\n * If either value is `NaN`, returns `NaN`.\n
*\n\n@SinceKotlin(\"1.1\")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf(a: Double, b: Double):
Double\n\n**\n * Returns the greater of three values.\n * \n\n * If there are multiple equal maximal values, returns the
first of them.\n * \n\n@SinceKotlin(\"1.1\")\n\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T, c: T):
T\n\n**\n * Returns the greater of three values.\n * \n\n@SinceKotlin(\"1.1\")\n\n@kotlin.internal.InlineOnly\n\npublic

```



```

*\/n@SinceKotlin("1.1")\/n@kotlin.internal.InlineOnly\/npublic expect inline fun minOf(a: Int, b: Int, c: Int):
Int\/n\/n**\/n * Returns the smaller of three values.\/n *\/n@SinceKotlin("1.1")\/n@kotlin.internal.InlineOnly\/npublic
expect inline fun minOf(a: Long, b: Long, c: Long): Long\/n\/n**\/n * Returns the smaller of three values.\/n *\/n * If
any value is `NaN`, returns `NaN`.\/n *\/n@SinceKotlin("1.1")\/n@kotlin.internal.InlineOnly\/npublic expect inline
fun minOf(a: Float, b: Float, c: Float): Float\/n\/n**\/n * Returns the smaller of three values.\/n *\/n * If any value is
`NaN`, returns `NaN`.\/n *\/n@SinceKotlin("1.1")\/n@kotlin.internal.InlineOnly\/npublic expect inline fun minOf(a:
Double, b: Double, c: Double): Double\/n\/n**\/n * Returns the smaller of three values according to the order
specified by the given [comparator].\/n *\/n * If there are multiple equal minimal values, returns the first of them.\/n
*\/n@SinceKotlin("1.1")\/npublic fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\/n return
minOf(a, minOf(b, c, comparator), comparator)\/n}\/n\/n**\/n * Returns the smaller of two values according to the
order specified by the given [comparator].\/n *\/n * If values are equal, returns the first one.\/n
*\/n@SinceKotlin("1.1")\/npublic fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {\/n return if
(comparator.compare(a, b) <= 0) a else b\/n}\/n\/n**\/n * Returns the smaller of the given values.\/n *\/n * If there are
multiple equal minimal values, returns the first of them.\/n *\/n@SinceKotlin("1.4")\/npublic expect fun <T :
Comparable<T>> minOf(a: T, vararg other: T): T\/n\/n**\/n * Returns the smaller of the given values.\/n
*\/n@SinceKotlin("1.4")\/npublic expect fun minOf(a: Byte, vararg other: Byte): Byte\/n\/n**\/n * Returns the
smaller of the given values.\/n *\/n@SinceKotlin("1.4")\/npublic expect fun minOf(a: Short, vararg other: Short):
Short\/n\/n**\/n * Returns the smaller of the given values.\/n *\/n@SinceKotlin("1.4")\/npublic expect fun minOf(a:
Int, vararg other: Int): Int\/n\/n**\/n * Returns the smaller of the given values.\/n *\/n@SinceKotlin("1.4")\/npublic
expect fun minOf(a: Long, vararg other: Long): Long\/n\/n**\/n * Returns the smaller of the given values.\/n *\/n * If
any value is `NaN`, returns `NaN`.\/n *\/n@SinceKotlin("1.4")\/npublic expect fun minOf(a: Float, vararg other:
Float): Float\/n\/n**\/n * Returns the smaller of the given values.\/n *\/n * If any value is `NaN`, returns `NaN`.\/n
*\/n@SinceKotlin("1.4")\/npublic expect fun minOf(a: Double, vararg other: Double): Double\/n\/n**\/n * Returns
the smaller of the given values according to the order specified by the given [comparator].\/n *\/n * If there are
multiple equal minimal values, returns the first of them.\/n *\/n@SinceKotlin("1.4")\/npublic fun <T> minOf(a: T,
vararg other: T, comparator: Comparator<in T>): T {\/n var min = a\/n for (e in other) if
(comparator.compare(min, e) > 0) min = e\/n return min\/n}\/n\/n", /* * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\/n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\/n
*\/n\/n@file:kotlin.jvm.JvmMultifileClass\/n@file:kotlin.jvm.JvmName("MapsKt")\/n\/npackage
kotlin.collections\/n\/n\/n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\/n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\/n\/nimport kotlin.random.*\/nimport
kotlin.ranges.contains\/nimport kotlin.ranges.reversed\/n\/n**\/n * Returns the first non-null value produced by
[transform] function being applied to entries of this map in iteration order,\/n * or throws
[NoSuchElementException] if no non-null value was produced.\/n *\/n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\/n
*\/n@SinceKotlin("1.5")\/n@kotlin.internal.InlineOnly\/npublic inline fun <K, V, R : Any> Map<out K,
V>.firstNotNullOf(transform: (Map.Entry<K, V>) -> R?): R {\/n return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the map was transformed to a non-null value.")\/n}\/n\/n**\/n * Returns
the first non-null value produced by [transform] function being applied to entries of this map in iteration order,\/n *
or `null` if no non-null value was produced.\/n *\/n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\/n
*\/n@SinceKotlin("1.5")\/n@kotlin.internal.InlineOnly\/npublic inline fun <K, V, R : Any> Map<out K,
V>.firstNotNullOfOrNull(transform: (Map.Entry<K, V>) -> R?): R? {\/n for (element in this) {\/n val result =
transform(element)\/n if (result != null) {\/n return result\/n }\/n }\/n return null\/n}\/n\/n**\/n *
Returns a [List] containing all key-value pairs.\/n *\/npublic fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>>
{\/n if (size == 0)\/n return emptyList()\/n val iterator = entries.iterator()\/n if (!iterator.hasNext())\/n
return emptyList()\/n val first = iterator.next()\/n if (!iterator.hasNext())\/n return listOf(first.toPair())\/n val

```

```

result = ArrayList<Pair<K, V>>(size)\n  result.add(first.toPair())\n  do {\n
result.add(iterator.next().toPair())\n  } while (iterator.hasNext())\n  return result\n}\n\n/**\n * Returns a single list
of all elements yielded from results of [transform] function being invoked on each entry of original map.\n * \n *
@sample samples.collections.Maps.Transformations.flatMap\n */\npublic inline fun <K, V, R> Map<out K,
V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each entry of original map.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <K, V, R> Map<out K,
V>.flatMap(transform: (Map.Entry<K, V>) -> Sequence<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
entry of original map, to the given [destination].\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>>
Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {\n  for (element in
this) {\n    val list = transform(element)\n    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to
the given [destination].\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic inline fun <K, V, R, C :
MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) ->
Sequence<R>): C {\n  for (element in this) {\n    val list = transform(element)\n    destination.addAll(list)\n
}\n  return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform]
function\n * to each entry in the original map.\n * \n * @sample
samples.collections.Maps.Transformations.mapToList\n */\npublic inline fun <K, V, R> Map<out K,
V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {\n  return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each entry in the original map.\n * \n * @sample
samples.collections.Maps.Transformations.mapNotNull\n */\npublic inline fun <K, V, R : Any> Map<out K,
V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {\n  return mapNotNullTo(ArrayList<R>()),
transform)\n}\n\n/**\n * Applies the given [transform] function to each entry in the original map\n * and appends
only the non-null results to the given [destination].\n */\npublic inline fun <K, V, R : Any, C : MutableCollection<in
R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {\n  forEach {
element -> transform(element)?.let { destination.add(it) } }\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each entry of the original map\n * and appends the results to the given [destination].\n */\n@public inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.mapTo(destination: C, transform:
(Map.Entry<K, V>) -> R): C {\n  for (item in this)\n    destination.add(transform(item))\n  return
destination\n}\n\n/**\n * Returns `true` if all entries match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun <K, V> Map<out K, V>.all(predicate:
(Map.Entry<K, V>) -> Boolean): Boolean {\n  if (isEmpty()) return true\n  for (element in this) if
(!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if map has at least one entry.\n * \n *
@sample samples.collections.Collections.Aggregates.any\n */\npublic fun <K, V> Map<out K, V>.any(): Boolean
{\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one entry matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <K, V> Map<out K,
V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n  if (isEmpty()) return false\n  for (element in
this) if (predicate(element)) return true\n  return false\n}\n\n/**\n * Returns the number of entries in this map.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.count(): Int {\n  return size\n}\n\n/**\n * Returns the number of entries matching the given [predicate].\n */\npublic inline fun <K, V> Map<out K,
V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {\n  if (isEmpty()) return 0\n  var count = 0\n  for
(element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Performs the given [action] on each

```

```

entry.\n *^@kotlin.internal.HidesMembers\npublic inline fun <K, V> Map<out K, V>.forEach(action:
(Map.Entry<K, V>) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n@Deprecated("Use
maxByOrNull instead.", ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.4", errorSince = "1.5", hiddenSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R :
Comparable<R>> Map<out K, V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n return
maxByOrNull(selector)\n}\n\n/**\n * Returns the first entry yielding the largest value of the given function or `null`
if there are no entries.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out
K, V>.maxByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n return
entries.maxByOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
*^@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V>) -> Double): Double {\n return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the map is empty.\n
*^@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V>) -> Float): Float {\n return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws
NoSuchElementException if the map is empty.\n
*^@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOf(selector: (Map.Entry<K, V>) -> R): R {\n return entries.maxOf(selector)\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there
are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*^@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n return
entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*^@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n return
entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n
*^@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n return entries.maxOfOrNull(selector)\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*^@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.maxOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n return
entries.maxOfWith(comparator, selector)\n}\n\n/**\n * Returns the largest value according to the provided

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entries.minOrNull(selector)\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.minOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n    return entries.minOrNull(selector)\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.minWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n    return
entries.minWith(comparator, selector)\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each entry in the map or `null` if there
are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.minWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n    return
entries.minWithOrNull(comparator, selector)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <K, V> Map<out K, V>.minWith(comparator: Comparator<in
Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first
entry having the smallest value according to the provided [comparator] or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return
entries.minWithOrNull(comparator)\n}\n\n/**\n * Returns `true` if the map has no entries.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\npublic fun <K, V> Map<out K, V>.none(): Boolean {\n
return isEmpty()\n}\n\n/**\n * Returns `true` if no entries match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *\npublic inline fun <K, V> Map<out K,
V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty()) return true\n    for (element in
this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Performs the given [action] on each entry and
returns the map itself afterwards.\n * \n * @param [action] function that takes the index of an entry and the entry itself\n * and
performs the action on the entry.\n * \n@SinceKotlin("1.1")\npublic inline fun <K, V, M : Map<out K, V>>
M.onEach(action: (Map.Entry<K, V>) -> Unit): M {\n    return apply { for (element in this) action(element)
}\n}\n\n/**\n * Performs the given [action] on each entry, providing sequential index with the entry,\n * and returns
the map itself afterwards.\n * @param [action] function that takes the index of an entry and the entry itself\n * and
performs the action on the entry.\n * \n@SinceKotlin("1.4")\npublic inline fun <K, V, M : Map<out K, V>>
M.onEachIndexed(action: (index: Int, Map.Entry<K, V>) -> Unit): M {\n    return apply {
entries.forEachIndexed(action) }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original map returning
its entries when being iterated.\n * \n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.asIterable(): Iterable<Map.Entry<K, V>> {\n    return entries\n}\n\n/**\n * Creates a [Sequence] instance that
wraps the original map returning its entries when being iterated.\n * \npublic fun <K, V> Map<out K,
V>.asSequence(): Sequence<Map.Entry<K, V>> {\n    return entries.asSequence()\n}\n\n"/*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * \npackage kotlin.text\n/\n/\n NOTE:
THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n/\n// 10 mappings totally\ninternal fun
Char.titlecaseImpl(): String {\n    val uppercase = uppercase()\n    if (uppercase.length > 1) {\n        return if (this ==
"\u0149") uppercase else uppercase[0] + uppercase.substring(1).lowercase()\n    }\n    return
titlecaseChar().toString()\n}\n"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

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license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Converts this character to lower case using Unicode
mapping rules of the invariant locale.\n */\n@Deprecated("Use lowercaseChar() instead.",
ReplaceWith("lowercaseChar()"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toLowerCase(): Char =
lowercaseChar()\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant
locale.\n */\n * This function performs one-to-one character mapping.\n * To support one-to-many character
mapping use the [toLowerCase] function.\n * If this character has no mapping equivalent, the character itself is
returned.\n */\n * @sample samples.text.Chars.toLowerCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Char.lowercaseChar(): Char = lowercase()[0]\n\n/**\n * Converts this character to lower case
using Unicode mapping rules of the invariant locale.\n */\n * This function supports one-to-many character mapping,
thus the length of the returned string can be greater than one.\n * For example, ``\u0130'.toLowerCase()`` returns
``\u0069\u0307``,\n * where ``\u0130`` is the LATIN CAPITAL LETTER I WITH DOT ABOVE character
(``\u0130``).\n * If this character has no lower case mapping, the result of `toString()` of this char is returned.\n */\n *
@sample samples.text.Chars.toLowerCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Char.lowercase(): String = toString().asDynamic().toLowerCase().unsafeCast<String>()\n\n/**\n
 * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n
*/\n@Deprecated("Use uppercaseChar() instead.",
ReplaceWith("uppercaseChar()"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toUpperCase(): Char =
uppercaseChar()\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant
locale.\n */\n * This function performs one-to-one character mapping.\n * To support one-to-many character
mapping use the [toUpperCase] function.\n * If this character has no mapping equivalent, the character itself is
returned.\n */\n * @sample samples.text.Chars.toUpperCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Char.toUpperCaseChar(): Char {\n    val uppercase = uppercase()\n    return if (uppercase.length > 1) this else
uppercase[0]\n}\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant
locale.\n */\n * This function supports one-to-many character mapping, thus the length of the returned string can be
greater than one.\n * For example, ``\uFB00'.uppercase()`` returns ``\u0046\u0046``,\n * where ``\uFB00`` is the
LATIN SMALL LIGATURE FF character (``\uFB00``).\n * If this character has no upper case mapping, the result of
`toString()` of this char is returned.\n */\n * @sample samples.text.Chars.toUpperCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Char.toUpperCase(): String = toString().asDynamic().toUpperCase().unsafeCast<String>()\n\n/**\n
 * Converts this character to title case using Unicode mapping rules of the invariant locale.\n */\n * This function
performs one-to-one character mapping.\n * To support one-to-many character mapping use the [titlecase]
function.\n * If this character has no mapping equivalent, the result of calling [uppercaseChar] is returned.\n */\n *
@sample samples.text.Chars.titlecase\n
*/\n@SinceKotlin("1.5")\npublic actual fun Char.titlecaseChar(): Char =
titlecaseCharImpl()\n\n/**\n * Returns `true` if this character is a Unicode high-surrogate code unit (also known as
leading-surrogate code unit).\n */\n@kotlin.internal.InlineOnly\npublic actual fun Char.isHighSurrogate(): Boolean = this in
Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE\n\n/**\n * Returns `true` if this character is a
Unicode low-surrogate code unit (also known as trailing-surrogate code unit).\n */\n@kotlin.internal.InlineOnly\n
public actual fun Char.isLowSurrogate(): Boolean = this in
Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\n\n/**\n * Returns the Unicode general
category of this character.\n */\n@SinceKotlin("1.5")\npublic actual val Char.category: CharCategory\n    get() =
CharCategory.valueOf(getCategoryValue())\n\n/**\n * Returns `true` if this character (Unicode code point) is
defined in Unicode.\n */\n * A character is considered to be defined in Unicode if its [category] is not
[CharCategory.UNASSIGNED].\n */\n@SinceKotlin("1.5")\npublic actual fun Char.isDefined(): Boolean {\n    if

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(this < '\u0080') {\n    return true\n } \n    return getCategoryValue() !=
CharCategory.UNASSIGNED.value\n}\n\n/**\n * Returns `true` if this character is a letter.\n *\n * A character is
considered to be a letter if its [category] is [CharCategory.UPPERCASE_LETTER],\n *
[CharCategory.LOWERCASE_LETTER], [CharCategory.TITLECASE_LETTER],
[CharCategory.MODIFIER_LETTER], or [CharCategory.OTHER_LETTER].\n *\n * @sample
samples.text.Chars.isLetter\n *\n@SinceKotlin("1.5")\npublic actual fun Char.isLetter(): Boolean {\n    if (this in
'a..'z' || this in 'A..'Z') {\n        return true\n    }\n    if (this < '\u0080') {\n        return false\n    }\n    return
isLetterImpl()\n}\n\n/**\n * Returns `true` if this character is a letter or digit.\n *\n * @see isLetter\n *\n * @see
isDigit\n *\n * @sample samples.text.Chars.isLetterOrDigit\n *\n@SinceKotlin("1.5")\npublic actual fun
Char.isLetterOrDigit(): Boolean {\n    if (this in 'a..'z' || this in 'A..'Z' || this in '0..'9') {\n        return true\n    }\n    if
(this < '\u0080') {\n        return false\n    }\n    return isDigitImpl() || isLetterImpl()\n}\n\n/**\n * Returns `true` if
this character is a digit.\n *\n * A character is considered to be a digit if its [category] is
[CharCategory.DECIMAL_DIGIT_NUMBER].\n *\n * @sample samples.text.Chars.isDigit\n
*\n@SinceKotlin("1.5")\npublic actual fun Char.isDigit(): Boolean {\n    if (this in '0..'9') {\n        return true\n
    }\n    if (this < '\u0080') {\n        return false\n    }\n    return isDigitImpl()\n}\n\n/**\n * Returns `true` if this
character is upper case.\n *\n * A character is considered to be an upper case character if its [category] is
[CharCategory.UPPERCASE_LETTER],\n * or it has contributory property Other_Uppercase as defined by the
Unicode Standard.\n *\n * @sample samples.text.Chars.isUpperCase\n *\n@SinceKotlin("1.5")\npublic actual fun
Char.isUpperCase(): Boolean {\n    if (this in 'A..'Z') {\n        return true\n    }\n    if (this < '\u0080') {\n        return
false\n    }\n    return isUpperCaseImpl()\n}\n\n/**\n * Returns `true` if this character is lower case.\n *\n * A
character is considered to be a lower case character if its [category] is [CharCategory.LOWERCASE_LETTER],\n *
or it has contributory property Other_Lowercase as defined by the Unicode Standard.\n *\n * @sample
samples.text.Chars.isLowerCase\n *\n@SinceKotlin("1.5")\npublic actual fun Char.isLowerCase(): Boolean {\n    if
(this in 'a..'z') {\n        return true\n    }\n    if (this < '\u0080') {\n        return false\n    }\n    return
isLowerCaseImpl()\n}\n\n/**\n * Returns `true` if this character is a title case letter.\n *\n * A character is
considered to be a title case letter if its [category] is [CharCategory.TITLECASE_LETTER].\n *\n * @sample
samples.text.Chars.isTitleCase\n *\n@SinceKotlin("1.5")\npublic actual fun Char.isTitleCase(): Boolean {\n    if
(this < '\u0080') {\n        return false\n    }\n    return getCategoryValue() ==
CharCategory.TITLECASE_LETTER.value\n}\n\n/**\n * Returns `true` if this character is an ISO control
character.\n *\n * A character is considered to be an ISO control character if its [category] is
[CharCategory.CONTROL],\n * meaning the Char is in the range `'\u0000'..'u001F'` or in the range
`'\u007F'..'u009F'`.\n *\n * @sample samples.text.Chars.isISOControl\n *\n@SinceKotlin("1.5")\npublic actual
fun Char.isISOControl(): Boolean {\n    return this <= '\u001F' || this in '\u007F'..'u009F'\n}\n\n/**\n *
Determines whether a character is whitespace according to the Unicode standard.\n * Returns `true` if the character
is whitespace.\n *\n * @sample samples.text.Chars.isWhitespace\n *\npublic actual fun Char.isWhitespace():
Boolean = isWhitespaceImpl()", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n@package kotlin.text\nimport kotlin.js.RegExp\n\n/**\n * Converts the characters
in the specified array to a string.\n *\n@SinceKotlin("1.2")\n@Deprecated("Use CharArray.concatToString()
instead", ReplaceWith("chars.concatToString()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5")\npublic actual fun String(chars: CharArray): String {\n    var result = ""\n    for (char in chars) {\n
result += char\n    }\n    return result\n}\n\n/**\n * Converts the characters from a portion of the specified array to a
string.\n *\n * @throws IndexOutOfBoundsException if either [offset] or [length] are less than zero\n * or `offset +
length` is out of [chars] array bounds.\n *\n@SinceKotlin("1.2")\n@Deprecated("Use
CharArray.concatToString(startIndex, endIndex) instead", ReplaceWith("chars.concatToString(offset, offset +
length)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5")\npublic actual fun String(chars:
CharArray, offset: Int, length: Int): String {\n    if (offset < 0 || length < 0 || chars.size - offset < length)\n        throw
IndexOutOfBoundsException("size: ${chars.size}; offset: $offset; length: $length")\n    var result = ""\n    for

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(index in offset until offset + length) {\n    result += chars[index]\n } \n return result\n}\n\n/**\n *
Concatenates characters in this [CharArray] into a String.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
CharArray.concatToString(): String {\n    var result = ""\n    for (char in this) {\n        result += char\n    }\n
return result\n}\n\n/**\n * Concatenates characters in this [CharArray] or its subrange into a String.\n * @param
startIndex the beginning (inclusive) of the subrange of characters, 0 by default.\n * @param endIndex the end
(exclusive) of the subrange of characters, size of this array by default.\n * @throws
IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun CharArray.concatToString(startIndex: Int = 0,
endIndex: Int = this.size): String {\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n    var
result = ""\n    for (index in startIndex until endIndex) {\n        result += this[index]\n    }\n    return
result\n}\n\n/**\n * Returns a [CharArray] containing characters of this string.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
String.toCharArray(): CharArray {\n    return CharArray(length) { get(it) }\n}\n\n/**\n * Returns a [CharArray]
containing characters of this string or its substring.\n * @param startIndex the beginning (inclusive) of the
substring, 0 by default.\n * @param endIndex the end (exclusive) of the substring, length of this string by default.\n
*\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length
of this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int
= this.length): CharArray {\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n    return
CharArray(endIndex - startIndex) { get(startIndex + it) }\n}\n\n/**\n * Decodes a string from the bytes in UTF-8
encoding in this array.\n * Malformed byte sequences are replaced by the replacement char `\\uFFFD`.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
ByteArray.decodeToString(): String {\n    return decodeUtf8(this, 0, size, false)\n}\n\n/**\n * Decodes a string from
the bytes in UTF-8 encoding in this array or its subrange.\n * @param startIndex the beginning (inclusive) of the
subrange to decode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to decode, size of this
array by default.\n * @param throwOnInvalidSequence specifies whether to throw an exception on malformed byte
sequence or replace it by the replacement char `\\uFFFD`.\n * @throws IndexOutOfBoundsException if
[startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [startIndex] is greater than [endIndex].\n * @throws CharacterCodingException if the
byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun ByteArray.decodeToString(\n    startIndex: Int = 0,\n    endIndex: Int = this.size,\n    throwOnInvalidSequence: Boolean = false\n): String {\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n    return decodeUtf8(this, startIndex, endIndex,
throwOnInvalidSequence)\n}\n\n/**\n * Encodes this string to an array of bytes in UTF-8 encoding.\n * Any
malformed char sequence is replaced by the replacement byte sequence.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
String.encodeToByteArray(): ByteArray {\n    return encodeUtf8(this, 0, length, false)\n}\n\n/**\n * Encodes this
string or its substring to an array of bytes in UTF-8 encoding.\n * @param startIndex the beginning (inclusive)
of the substring to encode, 0 by default.\n * @param endIndex the end (exclusive) of the substring to encode, length
of this string by default.\n * @param throwOnInvalidSequence specifies whether to throw an exception on
malformed char sequence or replace.\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero
or [endIndex] is greater than the length of this string.\n * @throws IllegalArgumentException if [startIndex] is
greater than [endIndex].\n * @throws CharacterCodingException if this string contains malformed char sequence

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```

and [throwOnInvalidSequence] is true.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("\nACTUAL_FUNCTION\n_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String.encodeToByteArray(\n    startIndex: Int = 0,\n    endIndex: Int = this.length,\n    throwOnInvalidSequence: Boolean = false\n): ByteArray {\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n    return encodeUtf8(this, startIndex, endIndex,\n        throwOnInvalidSequence)\n}\n\n**\n * Returns a copy of this string converted to upper case using the rules of the\n    default locale.\n *\n@Deprecated("Use uppercase() instead.")\nReplaceWith("uppercase()")\n@DeprecatedSinceKotlin(warningSince =\n    "1.5")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toUpperCase(): String =\n    asDynamic().toUpperCase()\n\n**\n * Returns a copy of this string converted to upper case using Unicode mapping\n    rules of the invariant locale.\n *\n * This function supports one-to-many and many-to-one character mapping,\n    thus the length of the returned string can be different from the length of the original string.\n *\n * @sample\n    samples.text.Strings.uppercase\n\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\n    actual inline fun String.uppercase(): String = asDynamic().toUpperCase()\n\n**\n * Returns a copy of this string\n    converted to lower case using the rules of the default locale.\n *\n@Deprecated("Use lowercase() instead.")\nReplaceWith("lowercase()")\n@DeprecatedSinceKotlin(warningSince =\n    "1.5")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toLowerCase(): String =\n    asDynamic().toLowerCase()\n\n**\n * Returns a copy of this string converted to lower case using Unicode\n    mapping rules of the invariant locale.\n *\n * This function supports one-to-many and many-to-one character\n    mapping,\n    thus the length of the returned string can be different from the length of the original string.\n *\n * @sample\n    samples.text.Strings.lowercase\n\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\n    actual inline fun String.lowercase(): String = asDynamic().toLowerCase()\n\n@kotlin.internal.InlineOnly\n@internal\n    actual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str,\n        fromIndex)\n\n@kotlin.internal.InlineOnly\n@internal\n    actual inline fun String.nativeLastIndexOf(str: String,\n        fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)\n\n@kotlin.internal.InlineOnly\n@internal\n    inline fun\n        String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s,\n            position)\n\n@kotlin.internal.InlineOnly\n@internal\n    inline fun\n        String.nativeEndsWith(s: String): Boolean =\n            asDynamic().endsWith(s)\n\n@kotlin.internal.InlineOnly\n    public actual inline fun String.substring(startIndex: Int):\n        String = asDynamic().substring(startIndex)\n\n@kotlin.internal.InlineOnly\n    public actual inline fun\n        String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex,\n            endIndex)\n\n@Deprecated("Use String.plus() instead", ReplaceWith("this +\n    str"))\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\n    public inline fun\n        String.concat(str: String): String = asDynamic().concat(str)\n\n@Deprecated("Use Regex.findAll() instead or\n    invoke matches() on String dynamically:\n    this.asDynamic().match(regex)")\n@DeprecatedSinceKotlin(warningSince =\n    "1.6")\n@kotlin.internal.InlineOnly\n    public inline fun String.match(regex: String): Array<String>? =\n        asDynamic().match(regex)\n\n//native\n    public fun String.trim(): String\n\n//TODO: String.replace to implement\n    effective trimLeading and trimTrailing\n\n@kotlin.internal.InlineOnly\n@internal\n    inline fun\n        String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern,\n            replacement)\n\n**\n * Compares two strings lexicographically, optionally ignoring case differences.\n *\n * If\n    [ignoreCase] is true, the result of `Char.toUpperCaseChar().toLowerCaseChar()` on each character is compared.\n *\n@SinceKotlin("1.2")\n@Suppress("\nACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n    public\n        actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {\n            if (ignoreCase) {\n                val n1 =\n                    this.length\n                val n2 = other.length\n                val min = minOf(n1, n2)\n                if (min == 0) return n1 - n2\n                for\n                    (index in 0 until min) {\n                        var thisChar = this[index]\n                        var otherChar = other[index]\n                        if\n                            (thisChar != otherChar) {\n                                thisChar = thisChar.toUpperCaseChar()\n                                otherChar =

```


and the Unicode decimal digit value of the character is less than the specified [radix]. In this case the decimal digit value is returned.

- The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix + 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned.
- The Char is one of the lowercase Latin letters 'a' through 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned.
- The Char is one of the fullwidth Latin capital letters '\uFF21' through '\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21 + 10` is returned.
- The Char is one of the fullwidth Latin small letters '\uFF41' through '\uFF5A' and its [code] is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned.

```

@sample samples.text.Chars.digitToIntOrNull
*/
@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
public fun Char.digitToIntOrNull(radix: Int): Int? {
    checkRadix(radix)
    return digitOf(this, radix).takeIf { it >= 0 }
}
*/
Returns the Char that represents this decimal digit.
Throws an exception if this value is not in the range `0..9`.
If this value is in `0..9`, the decimal digit Char with code `0.code + this` is returned.
@sample samples.text.Chars.digitToChar
*/
@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
public fun Int.digitToChar(): Char {
    if (this in 0..9) {
        return '0' + this
    }
    throw IllegalArgumentException("Int $this is not a decimal digit")
}
*/
Returns the Char that represents this numeric digit value in the specified [radix].
Throws an exception if the [radix] is not in the range `2..36` or if this value is not in the range `0` until radix`.
If this value is less than `10`, the decimal digit Char with code `0.code + this` is returned.
Otherwise, the uppercase Latin letter with code `A.code + this - 10` is returned.
@sample samples.text.Chars.digitToChar
*/
@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
public fun Int.digitToChar(radix: Int): Char {
    if (radix !in 2..36) {
        throw IllegalArgumentException("Invalid radix: $radix. Valid radix values are in range 2..36")
    }
    if (this < 0 || this >= radix) {
        throw IllegalArgumentException("Digit $this does not represent a valid digit in radix $radix")
    }
    return if (this < 10) {
        '0' + this
    } else {
        'A' + this - 10
    }
}
*/
Converts this character to lower case using Unicode mapping rules of the invariant locale.
@Deprecated("Use lowercaseChar() instead.")
ReplaceWith("lowercaseChar()")
@DeprecatedSinceKotlin(warningSince = "1.5")
public expect fun Char.toLowerCase(): Char
*/
Converts this character to lower case using Unicode mapping rules of the invariant locale.
This function performs one-to-one character mapping.
To support one-to-many character mapping use the [toLowerCase] function.
If this character has no mapping equivalent, the character itself is returned.
@sample samples.text.Chars.toLowerCase
*/
@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Char.toLowerCaseChar(): Char
*/
Converts this character to lower case using Unicode mapping rules of the invariant locale.
This function supports one-to-many character mapping, thus the length of the returned string can be greater than one.
For example, ("\u0130").toLowerCase() returns ("\u0069\u0307"), where ("\u0130") is the LATIN CAPITAL LETTER I WITH DOT ABOVE character (("\ufffd\u00fffd")).
If this character has no lower case mapping, the result of toString() of this char is returned.
@sample samples.text.Chars.toLowerCaseChar
*/
@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Char.toLowerCaseChar(): String
*/
Converts this character to upper case using Unicode mapping rules of the invariant locale.
@Deprecated("Use uppercaseChar() instead.")
ReplaceWith("uppercaseChar()")
@DeprecatedSinceKotlin(warningSince = "1.5")
public expect fun Char.toUpperCase(): Char
*/
Converts this character to upper case using Unicode mapping rules of the invariant locale.
This function performs one-to-one character mapping.
To support one-to-many character mapping use the [toUpperCase] function.
If this character has no mapping equivalent, the character itself is returned.
@sample samples.text.Chars.toUpperCase
*/
@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Char.toUpperCaseChar(): Char
*/
Converts this character to upper case using Unicode mapping rules of the invariant locale.
This function supports one-to-many character mapping, thus the length of the returned

```

string can be greater than one. For example, `'\u0046\u0046'.uppercase()` returns `'\u0046\u0046'`, where `'\u0046\u0046'` is the LATIN SMALL LIGATURE FF character (`\ufffd\u0046\u0046`). If this character has no upper case mapping, the result of `toString()` of this char is returned.

`@sample samples.text.Chars.uppercase`

`fun Char.uppercase(): String`

Converts this character to title case using Unicode mapping rules of the invariant locale. This function performs one-to-one character mapping. To support one-to-many character mapping use the `[titlecase]` function. If this character has no mapping equivalent, the result of calling `[uppercaseChar]` is returned.

`@sample samples.text.Chars.titlecase`

`fun Char.titlecaseChar(): Char`

Converts this character to title case using Unicode mapping rules of the invariant locale. This function supports one-to-many character mapping, thus the length of the returned string can be greater than one. For example, `'\u0046\u0066'.titlecase()` returns `'\u0046\u0066'`, where `'\u0046\u0066'` is the LATIN SMALL LIGATURE FF character (`\ufffd\u0066`). If this character has no title case mapping, the result of `[uppercase]` is returned instead.

`@sample samples.text.Chars.titlecase`

`fun Char.titlecase(): String = titlecaseImpl()`

Concatenates this Char and a String.

`@sample samples.text.Chars.plus`

`fun Char.plus(other: String): String = this.toString() + other`

Returns `true` if this character is equal to the `[other]` character, optionally ignoring character case. Two characters are considered equal ignoring case if `Char.uppercaseChar().lowercaseChar()` on each character produces the same result.

`@param ignoreCase true` to ignore character case when comparing characters. By default `false`.

`@sample samples.text.Chars.equals`

`fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean`

```

{
    if (this == other) return true
    if (!ignoreCase) return false
    val thisUpper = this.uppercaseChar()
    val otherUpper = other.uppercaseChar()
    return thisUpper == otherUpper || thisUpper.lowercaseChar() ==
        otherUpper.lowercaseChar()
}

```

Returns `true` if this character is a Unicode surrogate code unit.

`fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE`

Returns the Unicode general category of this character.

`@SinceKotlin("1.5")`

`fun Char.category(): CharCategory`

Returns `true` if this character (Unicode code point) is defined in Unicode. A character is considered to be defined in Unicode if its `[category]` is not `[CharCategory.UNASSIGNED]`.

`@SinceKotlin("1.5")`

`fun Char.isDefined(): Boolean`

Returns `true` if this character is a letter. A character is considered to be a letter if its `[category]` is `[CharCategory.UPPERCASE_LETTER]`, `[CharCategory.LOWERCASE_LETTER]`, `[CharCategory.TITLECASE_LETTER]`, `[CharCategory.MODIFIER_LETTER]`, or `[CharCategory.OTHER_LETTER]`.

`@sample samples.text.Chars.isLetter`

`fun Char.isLetter(): Boolean`

Returns `true` if this character is a letter or digit.

`@see isLetter`

`@see isDigit`

`@sample samples.text.Chars.isLetterOrDigit`

`fun Char.isLetterOrDigit(): Boolean`

Returns `true` if this character is a digit. A character is considered to be a digit if its `[category]` is `[CharCategory.DECIMAL_DIGIT_NUMBER]`.

`@sample samples.text.Chars.isDigit`

`fun Char.isDigit(): Boolean`

Returns `true` if this character is upper case. A character is considered to be an upper case character if its `[category]` is `[CharCategory.UPPERCASE_LETTER]`, or it has contributory property `Other_Uppercase` as defined by the Unicode Standard.

`@sample samples.text.Chars.isUpperCase`

`fun Char.isUpperCase(): Boolean`

Returns `true` if this character is lower case. A character is considered to be a lower case character if its `[category]` is `[CharCategory.LOWERCASE_LETTER]`, or it has contributory property `Other_Lowercase` as defined by the Unicode Standard.

`@sample samples.text.Chars.isLowerCase`

`fun Char.isLowerCase(): Boolean`

Returns `true` if this character is a title case letter. A character is considered to be a title case letter if its `[category]` is `[CharCategory.TITLECASE_LETTER]`.

`@sample samples.text.Chars.isTitleCase`

`fun Char.isTitleCase(): Boolean`

```

* Returns `true` if this character is an ISO control character.\n *\n * A character is considered to be an ISO control
character if its [category] is [CharCategory.CONTROL],\n * meaning the Char is in the range `\\u0000'..'\\u001F`
or in the range `\\u007F'..'\\u009F`.\n *\n * @sample samples.text.Chars.isISOControl\n
*/\n@SinceKotlin("1.5")\npublic expect fun Char.isISOControl(): Boolean\n/>\n *\n * Determines whether a
character is whitespace according to the Unicode standard.\n * Returns `true` if the character is whitespace.\n *\n *
@sample samples.text.Chars.isWhitespace\n */\npublic expect fun Char.isWhitespace(): Boolean\n","/*\n *
Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin\n\n/>\n *\n * Creates a Char with the specified [code], or throws an exception if the [code] is out of
`Char.MIN_VALUE.code..Char.MAX_VALUE.code`.\n *\n * If the program that calls this function is written in a
way that only valid [code] is passed as the argument,\n * using the overload that takes a [UShort] argument is
preferable (`Char(intValue.toUShort())`).\n * That overload doesn't check validity of the argument, and may
improve program performance when the function is called routinely inside a loop.\n *\n * @sample
samples.text.Chars.charFromCode\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun Char(code: Int): Char {\n    if (code < Char.MIN_VALUE.code || code > Char.MAX_VALUE.code) {\n
        throw IllegalArgumentException("Invalid Char code: $code")\n    }\n    return code.toChar()\n}\n/>\n *\n *
Creates a Char with the specified [code].\n *\n * @sample samples.text.Chars.charFromCode\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("NO_ACTUAL_FOR
_EXPECT")\npublic expect fun Char(code: UShort): Char\n\n/>\n *\n * Returns the code of this Char.\n *\n * Code of
a Char is the value it was constructed with, and the UTF-16 code unit corresponding to this Char.\n *\n * @sample
samples.text.Chars.code\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Su
ppress("DEPRECATION")\npublic inline val Char.code: Int get() = this.toInt()\n","/*\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n\npackage
kotlin.sequences\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/>\n *\n * Returns
`true` if [element] is found in the sequence.\n *\n * The operation is _terminal_.\n */\npublic operator fun
<@kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T): Boolean {\n    return indexOf(element)
>= 0\n}\n/>\n *\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the
[index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Elements.elementAt\n */\npublic fun <T> Sequence<T>.elementAt(index: Int): T
{\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("Sequence doesn't contain element at
index $index.") }\n}\n/>\n *\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun <T>
Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    if (index < 0)\n        return
defaultValue(index)\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) {\n        val element
= iterator.next()\n        if (index == count++)\n            return element\n    }\n    return
defaultValue(index)\n}\n/>\n *\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n */\npublic fun <T>
Sequence<T>.elementAtOrNull(index: Int): T? {\n    if (index < 0)\n        return null\n    val iterator = iterator()\n
    var count = 0\n    while (iterator.hasNext()) {\n        val element = iterator.next()\n        if (index == count++)\n
            return element\n    }\n    return null\n}\n/>\n *\n * Returns the first element matching the given [predicate], or `null`
if no such element was found.\n *\n * The operation is _terminal_.\n *\n * @sample

```



```

samples.collections.Collections.Elements.find\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Sequence<T>.find(predicate: (T) -> Boolean): T? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is
_terminal_.\n *\n * @sample samples.collections.Collections.Elements.find\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.findLast(predicate: (T) -> Boolean): T? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
sequence is empty.\n *\n * The operation is _terminal_.\n *\npublic fun <T> Sequence<T>.first(): T {\n    val
iterator = iterator()\n    if (!iterator.hasNext())\n        throw NoSuchElementException("Sequence is empty.")\n
return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n *\n * The operation is _terminal_.\n *\npublic inline fun
<T> Sequence<T>.first(predicate: (T) -> Boolean): T {\n    for (element in this) if (predicate(element)) return
element\n    throw NoSuchElementException("Sequence contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first non-null value produced by [transform] function being applied to elements of this sequence in
iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n *\n * The operation
is _terminal_.\n *\n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>
Sequence<T>.firstNotNullOf(transform: (T) -> R?): R {\n    return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the sequence was transformed to a non-null value.")\n}\n\n/**\n *
Returns the first non-null value produced by [transform] function being applied to elements of this sequence in
iteration order,\n * or `null` if no non-null value was produced.\n *\n * The operation is _terminal_.\n *\n *
@sample samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>
Sequence<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n    for (element in this) {\n        val result =
transform(element)\n        if (result != null) {\n            return result\n        }\n    }\n    return null\n}\n\n/**\n *
Returns the first element, or `null` if the sequence is empty.\n *\n * The operation is _terminal_.\n *\npublic fun
<T> Sequence<T>.firstOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n        return null\n
return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was
not found.\n *\n * The operation is _terminal_.\n *\npublic inline fun <T> Sequence<T>.firstOrNull(predicate: (T)
-> Boolean): T? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n *
Returns first index of [element], or -1 if the sequence does not contain element.\n *\n * The operation is
_terminal_.\n *\npublic fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int {\n    var
index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (element == item)\n            return
index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given
[predicate], or -1 if the sequence does not contain such element.\n *\n * The operation is _terminal_.\n *\npublic
inline fun <T> Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    var index = 0\n    for (item in this)
{\n        checkIndexOverflow(index)\n        if (predicate(item))\n            return index\n        index++\n    }\n
return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the sequence does not
contain such element.\n *\n * The operation is _terminal_.\n *\npublic inline fun <T>
Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    var lastIndex = -1\n    var index = 0\n    for (item in
this) {\n        checkIndexOverflow(index)\n        if (predicate(item))\n            lastIndex = index\n            index++\n
    }\n    return lastIndex\n}\n\n/**\n * Returns the last element.\n *\n * The operation is _terminal_.\n *\n * @throws
NoSuchElementException if the sequence is empty.\n *\n * @sample
samples.collections.Collections.Elements.last\n *\npublic fun <T> Sequence<T>.last(): T {\n    val iterator =
iterator()\n    if (!iterator.hasNext())\n        throw NoSuchElementException("Sequence is empty.")\n    var last =
iterator.next()\n    while (iterator.hasNext())\n        last = iterator.next()\n    return last\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n *\n * The operation is _terminal_.\n *\n * @throws
NoSuchElementException if no such element is found.\n *\n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun <T> Sequence<T>.last(predicate: (T) ->

```



```

samples.collections.Collections.Filtering.filterIndexed\n *\npublic fun <T> Sequence<T>.filterIndexed(predicate:
(index: Int, T) -> Boolean): Sequence<T> {\n // TODO: Rewrite with generalized MapFilterIndexingSequence\n
return TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) }), {
it.value })\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n *\npublic inline fun <T, C : MutableCollection<in T>>
Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed {
index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return
destination\n}\n}\n\n/**\n * Returns a sequence containing all elements that are instances of specified type parameter
R.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Filtering.filterIsInstance\n *\npublic inline fun <reified R>
Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> {\n
@Suppress(\"UNCHECKED_CAST\")\n return filter { it is R } as Sequence<R>\n}\n}\n\n/**\n * Appends all
elements that are instances of specified type parameter R to the given [destination].\n *\n * The operation is
_terminal_.\n *\n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n *\npublic inline fun
<reified R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C {\n for (element in
this) if (element is R) destination.add(element)\n return destination\n}\n}\n\n/**\n * Returns a sequence containing
all elements not matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n *\n *
@sample samples.collections.Collections.Filtering.filter\n *\npublic fun <T> Sequence<T>.filterNot(predicate: (T)
-> Boolean): Sequence<T> {\n return FilteringSequence(this, false, predicate)\n}\n}\n\n/**\n * Returns a sequence
containing all elements that are not `null`.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Filtering.filterNotNull\n *\npublic fun <T : Any> Sequence<T?>.filterNotNull():
Sequence<T> {\n @Suppress(\"UNCHECKED_CAST\")\n return filterNot { it == null } as
Sequence<T>\n}\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n *\n * The operation
is _terminal_.\n *\n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n *\npublic fun <C :
MutableCollection<in T>, T : Any> Sequence<T?>.filterNotNullTo(destination: C): C {\n for (element in this) if
(element != null) destination.add(element)\n return destination\n}\n}\n\n/**\n * Appends all elements not matching
the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <T, C : MutableCollection<in T>>
Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <T, C : MutableCollection<in T>>
Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (predicate(element))
destination.add(element)\n return destination\n}\n}\n\n/**\n * Returns a sequence containing first [n] elements.\n *\n *
The operation is _intermediate_ and _stateless_.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n *
@sample samples.collections.Collections.Transformations.take\n *\npublic fun <T> Sequence<T>.take(n: Int):
Sequence<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return when {\n n
== 0 -> emptySequence()\n this is DropTakeSequence -> this.take(n)\n else -> TakeSequence(this, n)\n
}\n}\n}\n\n/**\n * Returns a sequence containing first elements satisfying the given [predicate].\n *\n * The operation
is _intermediate_ and _stateless_.\n *\n * @sample samples.collections.Collections.Transformations.take\n *\npublic fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> {\n return
TakeWhileSequence(this, predicate)\n}\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted
according to their natural sort order.\n *\n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n *\npublic fun <T :
Comparable<T>> Sequence<T>.sorted(): Sequence<T> {\n return object : Sequence<T> {\n override fun
iterator(): Iterator<T> {\n val sortedList = this@sorted.toMutableList()\n sortedList.sort()\n

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return sortedList.iterator()\n    }\n }\n}\n\n/**\n * Returns a sequence that yields elements of this sequence
sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is
_stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation
is _intermediate_ and _stateful_.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic
inline fun <T, R : Comparable<R>> Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> {\n
return sortedWith(compareBy(selector))\n}\n}\n\n/**\n * Returns a sequence that yields elements of this sequence
sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The
sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The
operation is _intermediate_ and _stateful_.\n */\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> {\n return
sortedWith(compareByDescending(selector))\n}\n}\n\n/**\n * Returns a sequence that yields elements of this sequence
sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements
preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n
*/\npublic fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {\n return
sortedWith(reverseOrder())\n}\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according
to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative
to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T>
Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {\n return object : Sequence<T> {\n
override fun iterator(): Iterator<T> {\n val sortedList = this@sortedWith.toMutableList()\n
sortedList.sortWith(comparator)\n return sortedList.iterator()\n }\n }\n}\n\n/**\n * Returns a [Map]
containing key-value pairs provided by [transform] function\n * applied to elements of the given sequence.\n * \n *
If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.associate\n */\npublic inline fun <T, K, V>
Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n return associateTo(LinkedHashMap<K,
V>(), transform)\n}\n}\n\n/**\n * Returns a [Map] containing the elements from the given sequence indexed by the
key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry
iteration order of the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K>
Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n return associateByTo(LinkedHashMap<K,
T>(), keySelector)\n}\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed
by [keySelector] functions applied to elements of the given sequence.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry
iteration order of the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V>
Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n return
associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)\n}\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to
each element of the given sequence\n * and value is the element itself.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n *\n * The operation is _terminal_.\n * \n *
@sample samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M :
MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for
(element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the
given sequence.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.\n *\n * The operation is _terminal_.\n * \n * @sample

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samples.collections.Collections.Transformations.associateByToWithValueTransform\n *^\npublic inline fun <T, K,
V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each element of the given sequence.\n * \n
* If any of two pairs would have the same key the last one gets added to the map.\n * \n * The operation is
_terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateTo\n *^\npublic inline fun
<T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>):
M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n *
Returns a [Map] where keys are elements from the given sequence and values are\n * produced by the
[valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to
the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n * \n * The
operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n
*^\n@SinceKotlin("1.3")\npublic inline fun <K, V> Sequence<K>.associateWith(valueSelector: (K) -> V):
Map<K, V> {\n val result = LinkedHashMap<K, V>()\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given sequence,\n * where key is the element itself and value is provided by the [valueSelector]
function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the
map.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n *^\n@SinceKotlin("1.3")\npublic inline fun
<K, V, M : MutableMap<in K, in V>> Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M
{\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n * \n * The operation is
_terminal_.\n * \n *^\npublic fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {\n
for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a new [HashSet] of
all elements.\n * \n * The operation is _terminal_.\n * \n *^\npublic fun <T> Sequence<T>.toHashSet(): HashSet<T> {\n
return toCollection(HashSet<T>())\n}\n\n/**\n * Returns a [List] containing all elements.\n * \n * The operation is
_terminal_.\n * \n *^\npublic fun <T> Sequence<T>.toList(): List<T> {\n return
this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of
this sequence.\n * \n * The operation is _terminal_.\n * \n *^\npublic fun <T> Sequence<T>.toMutableList():
MutableList<T> {\n return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * \n
* The returned set preserves the element iteration order of the original sequence.\n * \n * The operation is
_terminal_.\n * \n *^\npublic fun <T> Sequence<T>.toSet(): Set<T> {\n return
toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single sequence of all elements
from results of [transform] function being invoked on each element of original sequence.\n * \n * The operation is
_intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
*^\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIterable")\npublic fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Iterable<R>): Sequence<R> {\n return FlatteningSequence(this,
transform, Iterable<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements from results of [transform]
function being invoked on each element of original sequence.\n * \n * The operation is _intermediate_ and
_stateless_.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n *^\npublic fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {\n return FlatteningSequence(this,
transform, Sequence<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original sequence.\n * \n * The operation
is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*^\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedIterable")\npublic fun <T, R>
Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): Sequence<R> {\n return
flatMapIndexed(this, transform, Iterable<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements
yielded from results of [transform] function being invoked on each element\n * and its index in the original
sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedSequence")\npublic fun <T, R>
Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): Sequence<R> {\n return
flatMapIndexed(this, transform, Sequence<R>::iterator)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original sequence, to the given
[destination].\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list =
transform(checkIndexOverflow(index++), element)\n destination.addAll(list)\n }\n return
destination\n}\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C {\n var index = 0\n for (element in this) {\n val list =
transform(checkIndexOverflow(index++), element)\n destination.addAll(list)\n }\n return
destination\n}\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIterableTo")\npublic inline fun <T, R, C :
MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination\n}\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n *\n@public inline fun
<T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C
{\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination\n}\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n *\n * The returned map preserves the entry iteration order of the keys produced from the
original sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.groupBy\n *\n@public inline fun <T, K>
Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return groupByTo(LinkedHashMap<K,
MutableList<T>>(), keySelector)\n}\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to
each element of the original sequence\n * by the key returned by the given [keySelector] function applied to the
element\n * and returns a map where each group key is associated with a list of corresponding values.\n *\n * The
returned map preserves the entry iteration order of the keys produced from the original sequence.\n *\n * The
operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n *\n@public inline fun <T, K, V>
Sequence<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n}\n\n/**\n * Groups elements

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of the original sequence by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n list.add(element)\n }\n return destination\n }\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original sequence\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n }\n\n/**\n * Creates a [Grouping] source from a sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin("1.1")\npublic inline fun <T, K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n return object : Grouping<T, K> {\n override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n override fun keyOf(element: T): K = keySelector(element)\n }\n }\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to each element in the original sequence.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> {\n return TransformingSequence(this, transform)\n }\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to each element and its index in the original sequence.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {\n return TransformingIndexedSequence(this, transform)\n }\n\n/**\n * Returns a sequence containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original sequence.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {\n return TransformingIndexedSequence(this, transform).filterNotNull()\n }\n\n/**\n * Applies the given [transform] function to each element and its index in the original sequence\n * and appends only the non-null results to the given [destination].\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n }\n\n/**\n * Applies the given [transform] function to each element and its index in the original sequence\n * and appends the results to the given [destination].\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return destination\n }\n\n/**\n * Returns a sequence containing only the non-null results of applying the given [transform] function\n * to each element in the original sequence.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.mapNotNull\n */\npublic fun <T, R : Any>

Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {\n return TransformingSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element in the original sequence\n * and appends only the non-null results to the given [destination].\n * \n * The operation is _terminal_.\n */\n\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original sequence\n * and appends the results to the given [destination].\n * \n * The operation is _terminal_.\n */\n\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a sequence that wraps each element of the original sequence\n * into an [IndexedValue] containing the index of that element and the element itself.\n * \n * The operation is _intermediate_ and _stateless_.\n */\n\npublic fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {\n return IndexingSequence(this)\n}\n\n/**\n * Returns a sequence containing only distinct elements from the given sequence.\n * \n * Among equal elements of the given sequence, only the first one will be present in the resulting sequence.\n * \n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n * \n * The operation is _intermediate_ and _stateful_.\n */\n\n@sample\n samples.collections.Collections.Transformations.distinctAndDistinctBy\n\n/**\n * Returns a sequence containing only elements from the given sequence\n * having distinct keys returned by the given [selector] function.\n * \n * Among elements of the given sequence with equal keys, only the first one will be present in the resulting sequence.\n * \n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n * \n * The operation is _intermediate_ and _stateful_.\n */\n\n@sample\n samples.collections.Collections.Transformations.distinctAndDistinctBy\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given sequence.\n * \n * The returned set preserves the element iteration order of the original sequence.\n * \n * The operation is _terminal_.\n */\n\npublic fun <T> Sequence<T>.toMutableSet(): MutableSet<T> {\n val set = LinkedHashSet<T>()\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * The operation is _terminal_.\n */\n\n@sample\n samples.collections.Collections.Aggregates.all\n\n/**\n * Returns `true` if sequence has at least one element.\n * \n * The operation is _terminal_.\n */\n\n@sample\n samples.collections.Collections.Aggregates.any\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * The operation is _terminal_.\n */\n\n@sample\n samples.collections.Collections.Aggregates.anyWithPredicate\n\n/**\n * Returns the number of elements in this sequence.\n * \n * The operation is _terminal_.\n */\n\npublic fun <T> Sequence<T>.count(): Int {\n var count = 0\n for (element in this) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n * \n * The operation is _terminal_.\n */\n\npublic inline fun <T> Sequence<T>.count(predicate: (T) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the sequence is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * The operation is _terminal_.\n */\n\npublic inline fun <T, R> Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * \n * Returns the specified [initial] value if the sequence is empty.\n */\n


```

@param [operation] function that takes the index of an element, current accumulator value
and the element itself, and calculates the next accumulator value.
 * The operation is _terminal_.
public inline fun <T, R> Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)
    return accumulator
}

 * Performs the given [action] on each element.
 * The operation is _terminal_.
public inline fun <T> Sequence<T>.forEach(action: (T) -> Unit): Unit {
    for (element in this) action(element)
}

 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 * The operation is _terminal_.
public inline fun <T> Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {
    var index = 0
    for (item in this) action(checkIndexOverflow(index++), item)
}

@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
@SinceKotlin("1.1")
public fun Sequence<Double>.max(): Double? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
@SinceKotlin("1.1")
public fun Sequence<Float>.max(): Float? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun <T : Comparable<T>> Sequence<T>.max(): T? {
    return maxOrNull()
}

@Deprecated("Use maxByOrNull instead.")
ReplaceWith("this.maxByOrNull(selector)")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) -> R): T? {
    return maxByOrNull(selector)
}

 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * The operation is _terminal_.
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 * @SinceKotlin("1.4")
public inline fun <T, R : Comparable<R>> Sequence<T>.maxByOrNull(selector: (T) -> R): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var maxElem = iterator.next()
    if (!iterator.hasNext()) return maxElem
    var maxV = selector(maxElem)
    while (iterator.hasNext()) {
        val e = iterator.next()
        val v = selector(e)
        if (maxV < v) {
            maxElem = e
            maxV = v
        }
    }
    return maxElem
}

 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the sequence.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 * @throws NoSuchElementException if the sequence is empty.
 * The operation is _terminal_.
 * @SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.maxOf(selector: (T) -> Double): Double {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var maxV = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxV = maxOf(maxV, v)
    }
    return maxV
}

 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the sequence.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 * @throws NoSuchElementException if the sequence is empty.
 * The operation is _terminal_.
 * @SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.maxOf(selector: (T) -> Float): Float {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var maxV = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxV = maxOf(maxV, v)
    }
    return maxV
}

 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the sequence.
 * @throws NoSuchElementException if the sequence is empty.
 * The operation is _terminal_.

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.maxOf(selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw
NoSuchElementException()\n    var maxV = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v
= selector(iterator.next())\n        if (maxV < v) {\n            maxV = v\n        }\n    }\n    return
maxV\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the sequence or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOrNull(selector:
(T) -> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var
maxV = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
        maxV =
maxOf(maxV, v)\n    }\n    return maxV\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n *
If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * The operation
is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOrNull(selector:
(T) -> Float): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var
maxV =
selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxV =
maxOf(maxV, v)\n    }\n    return maxV\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n *
The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.maxOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var maxV = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v =
selector(iterator.next())\n        if (maxV < v) {\n            maxV = v\n        }\n    }\n    return
maxV\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the sequence.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n * \n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.maxWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) throw NoSuchElementException()\n    var maxV = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(maxV, v) < 0) {\n
            maxV = v\n        }\n    }\n    return maxV\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the sequence or `null`
if there are no elements.\n * \n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.maxWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) return null\n    var maxV = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(maxV, v) < 0) {\n
            maxV = v\n        }\n    }\n    return maxV\n}\n\n/**\n * Returns the largest element or `null` if there are no
elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\npublic fun Sequence<Double>.maxOrNull(): Double? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if

```

there are no elements. \n * \n * If any of elements is `NaN` returns `NaN`. \n * \n * The operation is _terminal_. \n * \n * \n * @SinceKotlin("1.4") \n public fun Sequence<Float>.maxOrNull(): Float? { \n val iterator = iterator() \n if (!iterator.hasNext()) return null \n var max = iterator.next() \n while (iterator.hasNext()) { \n val e = iterator.next() \n max = maxOf(max, e) \n } \n return max \n } \n \n * \n * Returns the largest element or `null` if there are no elements. \n * \n * The operation is _terminal_. \n * \n * \n * @SinceKotlin("1.4") \n public fun <T> Comparable<T>> Sequence<T>.maxOrNull(): T? { \n val iterator = iterator() \n if (!iterator.hasNext()) return null \n var max = iterator.next() \n while (iterator.hasNext()) { \n val e = iterator.next() \n if (max < e) max = e \n } \n return max \n } \n \n @Deprecated("Use maxWithOrNull instead.", ReplaceWith("this.maxWithOrNull(comparator)")) \n @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6") \n public fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T? { \n return maxWithOrNull(comparator) \n } \n \n * \n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements. \n * \n * The operation is _terminal_. \n * \n * \n * @SinceKotlin("1.4") \n public fun <T> Sequence<T>.maxWithOrNull(comparator: Comparator<in T>): T? { \n val iterator = iterator() \n if (!iterator.hasNext()) return null \n var max = iterator.next() \n while (iterator.hasNext()) { \n val e = iterator.next() \n if (comparator.compare(max, e) < 0) max = e \n } \n return max \n } \n \n @Deprecated("Use minOrNull instead.", ReplaceWith("this.minOrNull()")) \n @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6") \n @SinceKotlin("1.1") \n public fun Sequence<Double>.min(): Double? { \n return minOrNull() \n } \n \n @Deprecated("Use minOrNull instead.", ReplaceWith("this.minOrNull()")) \n @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6") \n @SinceKotlin("1.1") \n public fun Sequence<Float>.min(): Float? { \n return minOrNull() \n } \n \n @Deprecated("Use minOrNull instead.", ReplaceWith("this.minOrNull()")) \n @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6") \n public fun <T> Comparable<T>> Sequence<T>.min(): T? { \n return minOrNull() \n } \n \n @Deprecated("Use minByOrNull instead.", ReplaceWith("this.minByOrNull(selector)")) \n @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6") \n public inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) -> R): T? { \n return minByOrNull(selector) \n } \n \n * \n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements. \n * \n * The operation is _terminal_. \n * \n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull \n * \n * @SinceKotlin("1.4") \n public inline fun <T, R : Comparable<R>> Sequence<T>.minByOrNull(selector: (T) -> R): T? { \n val iterator = iterator() \n if (!iterator.hasNext()) return null \n var minElem = iterator.next() \n if (!iterator.hasNext()) return minElem \n var minValue = selector(minElem) \n do { \n val e = iterator.next() \n val v = selector(e) \n if (minValue > v) { \n minElem = e \n minValue = v \n } \n } while (iterator.hasNext()) \n return minElem \n } \n \n * \n * Returns the smallest value among all values produced by [selector] function \n * applied to each element in the sequence. \n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`. \n * \n * @throws NoSuchElementException if the sequence is empty. \n * \n * The operation is _terminal_. \n * \n * \n * @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolutionByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <T> Sequence<T>.minOf(selector: (T) -> Double): Double { \n val iterator = iterator() \n if (!iterator.hasNext()) throw NoSuchElementException() \n var minValue = selector(iterator.next()) \n while (iterator.hasNext()) { \n val v = selector(iterator.next()) \n minValue = minOf(minValue, v) \n } \n return minValue \n } \n \n * \n * Returns the smallest value among all values produced by [selector] function \n * applied to each element in the sequence. \n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`. \n * \n * @throws NoSuchElementException if the sequence is empty. \n * \n * The operation is _terminal_. \n * \n * \n * @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolutionByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <T> Sequence<T>.minOf(selector: (T) ->

```

Float): Float {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var
    minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}
/** Returns the smallest value among all
values produced by [selector] function
* applied to each element in the sequence.
* @throws
NoSuchElementException if the sequence is empty.
* The operation is _terminal_
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>>
Sequence<T>.minOf(selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw
    NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v
        = selector(iterator.next())
        if (minValue > v) {
            minValue = v
        }
    }
    return
    minValue
}
/** Returns the smallest value among all values produced by [selector] function
* applied to
each element in the sequence or `null` if there are no elements.
* If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.
* The operation is _terminal_
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minOfOrNull(selector:
(T) -> Double): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue =
    selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue =
        minOf(minValue, v)
    }
    return minValue
}
/** Returns the smallest value among all values produced
by [selector] function
* applied to each element in the sequence or `null` if there are no elements.
* If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.
* The operation is _terminal_
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minOfOrNull(selector:
(T) -> Float): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue =
    selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue =
        minOf(minValue, v)
    }
    return minValue
}
/** Returns the smallest value among all values produced
by [selector] function
* applied to each element in the sequence or `null` if there are no elements.
* The
operation is _terminal_
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>>
Sequence<T>.minOfOrNull(selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return
    null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v =
        selector(iterator.next())
        if (minValue > v) {
            minValue = v
        }
    }
    return
    minValue
}
/** Returns the smallest value according to the provided [comparator]
* among all values
produced by [selector] function applied to each element in the sequence.
* @throws
NoSuchElementException if the sequence is empty.
* The operation is _terminal_
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R>
Sequence<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    val iterator = iterator()
    if
    (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while
    (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(minValue, v) > 0) {
           
            minValue = v
        }
    }
    return minValue
}
/** Returns the smallest value according to the
provided [comparator]
* among all values produced by [selector] function applied to each element in the sequence
or `null` if there are no elements.
* The operation is _terminal_
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R>
Sequence<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    val iterator =
    iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while
    (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(minValue, v) > 0) {
           
            minValue = v
        }
    }
    return
    minValue
}

```

```

    minValue = v\n    }\n    }\n    return minValue\n}\n}\n/**\n * Returns the smallest element or `null` if there are
no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\npublic fun Sequence<Double>.minOrNull(): Double? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        min = minOf(min, e)\n    }\n    return min\n}\n}\n/**\n * Returns the smallest element or `null` if
there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\npublic fun Sequence<Float>.minOrNull(): Float? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        min = minOf(min, e)\n    }\n    return min\n}\n}\n/**\n * Returns the smallest element or `null` if
there are no elements.\n * \n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\npublic fun <T :
Comparable<T>> Sequence<T>.minOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (min > e) min
= e\n    }\n    return min\n}\n}\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {\n
return minWithOrNull(comparator)\n}\n}\n/**\n * Returns the first element having the smallest value according to
the provided [comparator] or `null` if there are no elements.\n * \n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n
val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return
min\n}\n}\n/**\n * Returns `true` if the sequence has no elements.\n * \n * The operation is _terminal_.\n * \n *
*\n@sample samples.collections.Collections.Aggregates.none\n*\npublic fun <T> Sequence<T>.none(): Boolean {\n
return !iterator().hasNext()\n}\n}\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * The
operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\npublic inline fun <T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if
(predicate(element)) return false\n    return true\n}\n}\n/**\n * Returns a sequence which performs the given [action]
on each element of the original sequence as they pass through it.\n * \n * The operation is _intermediate_ and
_stateless_.\n
*\n@SinceKotlin("1.1")\npublic fun <T> Sequence<T>.onEach(action: (T) -> Unit): Sequence<T>\n
{\n    return map {\n        action(it)\n        it\n    }\n}\n}\n/**\n * Returns a sequence which performs the given
[action] on each element of the original sequence as they pass through it.\n * \n * @param [action] function that takes
the index of an element and the element itself\n * and performs the action on the element.\n * \n * The operation is
_intermediate_ and _stateless_.\n
*\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.onEachIndexed(action:
(index: Int, T) -> Unit): Sequence<T> {\n    return mapIndexed { index, element ->\n        action(index, element)\n
        element\n    }\n}\n}\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element.\n * \n * Throws an exception if this sequence is empty. If
the sequence can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n *
and calculates the next accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n
*\npublic inline fun <S, T : S>
Sequence<T>.reduce(operation: (acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if (!iterator.hasNext())
throw UnsupportedOperationException("Empty sequence can't be reduced.")\n    var accumulator: S =
iterator.next()\n    while (iterator.hasNext()) {\n        accumulator = operation(accumulator, iterator.next())\n    }\n
return accumulator\n}\n}\n/**\n * Accumulates value starting with the first element and applying [operation] from
left to right\n * to current accumulator value and each element with its index in the original sequence.\n * \n *
Throws an exception if this sequence is empty. If the sequence can be empty in an expected way,\n * please use
[reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function
that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next
accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample

```

```

samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun <S, T : S>
Sequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n  val iterator = this.iterator()\n  if
(!iterator.hasNext()) throw UnsupportedOperationException("Empty sequence can't be reduced.")\n  var index =
1\n  var accumulator: S = iterator.next()\n  while (iterator.hasNext()) {\n    accumulator =
operation(checkIndexOverflow(index++), accumulator, iterator.next())\n  }\n  return accumulator\n}\n\n/>\n *
Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element with its index in the original sequence.\n * \n * Returns `null` if the sequence is
empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the
element itself,\n * and calculates the next accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n *\n@\nSinceKotlin("1.4")\npublic inline fun <S, T : S>
Sequence<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n  val iterator = this.iterator()\n
if (!iterator.hasNext()) return null\n  var index = 1\n  var accumulator: S = iterator.next()\n  while
(iterator.hasNext()) {\n    accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n
}\n  return accumulator\n}\n\n/>\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the sequence is
empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates
the next accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@\nSinceKotlin("1.4")\n@\nWasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Sequence<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n  val iterator = this.iterator()\n  if
(!iterator.hasNext()) return null\n  var accumulator: S = iterator.next()\n  while (iterator.hasNext()) {\n
accumulator = operation(accumulator, iterator.next())\n  }\n  return accumulator\n}\n\n/>\n * Returns a sequence
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * The
[initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function
later because of sequence's lazy nature.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * The operation is _intermediate_ and
_stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@\nSinceKotlin("1.4")\npublic fun <T, R> Sequence<T>.runningFold(initial: R, operation: (acc: R, T) -> R):
Sequence<R> {\n  return sequence {\n    yield(initial)\n    var accumulator = initial\n    for (element in
this@runningFold) {\n      accumulator = operation(accumulator, element)\n      yield(accumulator)\n    }\n  }\n}\n\n/>\n * Returns a sequence containing successive accumulation values generated by applying [operation]
from left to right\n * to each element, its index in the original sequence and current accumulator value that starts
with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable
(or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n
*\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the
element itself, and calculates the next accumulator value.\n * \n * The operation is _intermediate_ and _stateless_.\n
*\n * @sample samples.collections.Collections.Aggregates.runningFold\n *\n@\nSinceKotlin("1.4")\npublic fun
<T, R> Sequence<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n
return sequence {\n  yield(initial)\n  var index = 0\n  var accumulator = initial\n  for (element in
this@runningFoldIndexed) {\n    accumulator = operation(checkIndexOverflow(index++), accumulator,
element)\n    yield(accumulator)\n  }\n}\n}\n\n/>\n * Returns a sequence containing successive
accumulation values generated by applying [operation] from left to right\n * to each element and current
accumulator value that starts with the first element of this sequence.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n
*\n * @param [operation] function that takes current accumulator value and the element, and calculates the next

```

```

accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n *@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun <S, T : S>
Sequence<T>.runningReduce(operation: (acc: S, T) -> S): Sequence<S> {\n    return sequence {\n        val iterator =
iterator()\n        if (iterator.hasNext()) {\n            var accumulator: S = iterator.next()\n            yield(accumulator)\n            while (iterator.hasNext()) {\n                accumulator = operation(accumulator, iterator.next())\n            }\n        }\n    }\n}\n\n/**\n * Returns a sequence containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original sequence and
current accumulator value that starts with the first element of this sequence.\n *\n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n
*\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the
element itself, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n
*\n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n *@SinceKotlin("1.4")\n public fun
<S, T : S> Sequence<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> {\n    return
sequence {\n        val iterator = iterator()\n        if (iterator.hasNext()) {\n            var accumulator: S =
iterator.next()\n            yield(accumulator)\n            var index = 1\n            while (iterator.hasNext()) {\n
                accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n            }\n        }\n    }\n}\n\n/**\n * Returns a sequence containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with [initial] value.\n *\n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable
(or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n
*\n * @param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n *@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun <T, R>
Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {\n    return runningFold(initial,
operation)\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original sequence and current accumulator value
that starts with [initial] value.\n *\n * Note that `acc` value passed to [operation] function should not be mutated;\n
*\n * otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable
(or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n
*\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the
element itself, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n
*\n * @sample samples.collections.Collections.Aggregates.scan\n
*\n *@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun <T, R>
Sequence<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n    return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the sequence.\n *\n * The operation is _terminal_.\n *\n *@Deprecated("Use sumOf
instead.", ReplaceWith("this.sumOf(selector)"))\n @DeprecatedSinceKotlin(warningSince = "1.5")\n public inline
fun <T> Sequence<T>.sumBy(selector: (T) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n *\n *@Deprecated("Use
sumOf instead.", ReplaceWith("this.sumOf(selector)"))\n @DeprecatedSinceKotlin(warningSince =
"1.5")\n public inline fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double {\n    var sum: Double
= 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum
of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is
_terminal_.\n

```


of original sequence except the elements contained in the given [elements] array.

Note that the source sequence and the array being subtracted are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

Before Kotlin 1.6, the [elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have a correct and stable implementation of `hashCode()` that didn't change between successive invocations.

On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.

The operation is `_intermediate_` and `_stateful_`.

```
public operator fun <T> Sequence<T>.minus(elements: Array<out T>): Sequence<T> {
    if (elements.isEmpty()) return this
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            val other = elements.convertToSetForSetOperation()
            return this@minus.filterNot { it in other }.iterator()
        }
    }
}
```

Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] collection.

Note that the source sequence and the collection being subtracted are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

Before Kotlin 1.6, the [elements] collection may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have a correct and stable implementation of `hashCode()` that didn't change between successive invocations.

On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.

The operation is `_intermediate_` and `_stateful_`.

```
public operator fun <T> Sequence<T>.minus(elements: Iterable<T>): Sequence<T> {
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            val other = elements.convertToSetForSetOperation()
            if (other.isEmpty()) return this@minus.iterator()
            else return this@minus.filterNot { it in other }.iterator()
        }
    }
}
```

Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] sequence.

Note that the source sequence and the sequence being subtracted are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

The operation is `_intermediate_` for this sequence and `_terminal_` and `_stateful_` for the [elements] sequence.

Before Kotlin 1.6, the [elements] sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have a correct and stable implementation of `hashCode()` that didn't change between successive invocations.

On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.

```
public operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            val other = elements.convertToSetForSetOperation()
            if (other.isEmpty()) return this@minus.iterator()
            else return this@minus.filterNot { it in other }.iterator()
        }
    }
}
```

Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].

The operation is `_intermediate_` and `_stateless_`.

```
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minusElement(element: T): Sequence<T> {
    return minus(element)
}
```

Splits the original sequence into pair of lists, where `first` list contains elements for which [predicate] yielded `true`, while `second` list contains elements for which [predicate] yielded `false`.

The operation is `_terminal_`.

```
@sample samples.collections.Sequences.Transformations.partition
public inline fun <T> Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    val first = ArrayList<T>()
    val second = ArrayList<T>()
    for (element in this) {
        if (predicate(element)) first.add(element)
    } else {
        second.add(element)
    }
    return Pair(first, second)
}
```

Returns a sequence containing all elements of the original sequence and then the given [element].

The operation is `_intermediate_` and `_stateless_`.

```
public operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {
    return sequenceOf(this, sequenceOf(element)).flatten()
}
```

Returns a sequence containing all elements of original sequence and then all elements of the given [elements] array.

Note that the source sequence and the array being added are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

The operation is `_intermediate_` and

```

_stateless_.\n *^{\npublic operator fun <T> Sequence<T>.plus(elements: Array<out T>): Sequence<T> {\n  return
this.plus(elements.asList())\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then
all elements of the given [elements] collection.\n * \n * Note that the source sequence and the collection being added
are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between
successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n
*\npublic operator fun <T> Sequence<T>.plus(elements: Iterable<T>): Sequence<T> {\n  return sequenceOf(this,
elements.asSequence()).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and
then all elements of the given [elements] sequence.\n * \n * Note that the source sequence and the sequence being
added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them
between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n
*\npublic operator fun <T> Sequence<T>.plus(elements: Sequence<T>): Sequence<T> {\n  return
sequenceOf(this, elements).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of the original
sequence and then the given [element].\n * \n * The operation is _intermediate_ and _stateless_.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {\n
return plus(element)\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding
along this sequence with the given [step], where each\n * snapshot is a list.\n * \n * Several last lists may have fewer
elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of
elements in this sequence.\n * @param size the number of elements to take in each window\n * @param step the
number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows
controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial
windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n
*\n@SinceKotlin("1.2")\npublic fun <T> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows:
Boolean = false): Sequence<List<T>> {\n  return windowedSequence(size, step, partialWindows, reuseBuffer =
false)\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each list
representing a view over the window of the given [size]\n * sliding along this sequence with the given [step].\n * \n
* Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You
should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may
have fewer elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than
the number of elements in this sequence.\n * @param size the number of elements to take in each window\n *
@param step the number of elements to move the window forward by on an each step, by default 1\n * @param
partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which
means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.averageWindows\n
*\n@SinceKotlin("1.2")\npublic fun <T, R>
Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R):
Sequence<R> {\n  return windowedSequence(size, step, partialWindows, reuseBuffer =
true).map(transform)\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the
[other] sequence with the same index.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n
*\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Sequences.Transformations.zip\n
*\npublic infix fun <T, R> Sequence<T>.zip(other:
Sequence<R>): Sequence<Pair<T, R>> {\n  return MergingSequence(this, other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The resulting sequence ends
as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n *
@param sample samples.collections.Sequences.Transformations.zipWithTransform\n
*\npublic fun <T, R, V>
Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {\n  return
MergingSequence(this, other, transform)\n}\n\n/**\n * Returns a sequence of pairs of each two adjacent elements in
this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The
operation is _intermediate_ and _stateless_.\n * \n * @sample

```

```

samples.collections.Collections.Transformations.zipWithNext\n *\n@SinceKotlin("1.2")\npublic fun <T>
Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {\n    return zipWithNext { a, b -> a to b }\n}\n\n/**\n *
Returns a sequence containing the results of applying the given [transform] function\n * to an each pair of two
adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two
elements.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n *\n@SinceKotlin("1.2")\npublic
fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {\n    return sequence result@
{\n        val iterator = iterator()\n        if (!iterator.hasNext()) return @result\n        var current = iterator.next()\n
while (iterator.hasNext()) {\n            val next = iterator.next()\n            yield(transform(current, next))\n
current = next\n        }\n    }\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and
using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-
negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the
[truncated] string (which defaults to "...").\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n *\n@public fun <T, A : Appendable>
Sequence<T>.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\"", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A
{\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1)
buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            buffer.appendElement(element, transform)\n
        } else break\n    }\n    if (limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n
return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *\n@public fun <T>
Sequence<T>.joinToString(separator: CharSequence = "\", \"", prefix: CharSequence = "\"", postfix: CharSequence =
\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {\n    return
joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original sequence returning its elements when being iterated.\n *\n@public fun <T>
Sequence<T>.asIterable(): Iterable<T> {\n    return Iterable { this.iterator() }\n}\n\n/**\n * Returns this sequence as
a [Sequence].\n *\n@kotlin.internal.InlineOnly\n@public inline fun <T> Sequence<T>.asSequence(): Sequence<T>
{\n    return this\n}\n\n/**\n * Returns an average value of elements in the sequence.\n * \n * The operation is
_terminal_.\n *\n@kotlin.jvm.JvmName("averageOfByte")\n@public fun Sequence<Byte>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n * \n * The operation is _terminal_.\n *\n@kotlin.jvm.JvmName("averageOfShort")\n@public fun Sequence<Short>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n * \n * The operation is _terminal_.\n *\n@kotlin.jvm.JvmName("averageOfInt")\n@public fun Sequence<Int>.average(): Double {\n    var sum: Double
= 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n        checkCountOverflow(++count)\n
    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the
sequence.\n * \n * The operation is _terminal_.\n *\n@kotlin.jvm.JvmName("averageOfLong")\n@public fun
Sequence<Long>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n
sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n * \n * The operation is _terminal_.\n *\n@kotlin.jvm.JvmName("averageOfFloat")\n@public fun Sequence<Float>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n

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checkCountOverflow(++count)\n } \n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("averageOfDouble")\npublic fun Sequence<Double>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n } \n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun Sequence<Byte>.sum(): Int {\n    var sum: Int = 0\n    for
(element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the
sequence.\n *\n * The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun
Sequence<Short>.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Sequence<Int>.sum(): Int {\n    var sum: Int = 0\n    for
(element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the
sequence.\n *\n * The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun
Sequence<Long>.sum(): Long {\n    var sum: Long = 0L\n    for (element in this) {\n        sum += element\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Sequence<Float>.sum(): Float {\n    var sum: Float = 0.0f\n
for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in
the sequence.\n *\n * The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun
Sequence<Double>.sum(): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += element\n    }\n    return
sum\n}\n\n", "\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SetsKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a set containing all elements of the original
set except the given [element].\n *\n * The returned set preserves the element iteration order of the original set.\n
*/\n\npublic operator fun <T> Set<T>.minus(element: T): Set<T> {\n    val result =
LinkedHashSet<T>(mapCapacity(size))\n    var removed = false\n    return this.filterTo(result) { if (!removed && it
== element) { removed = true; false } else true }\n}\n\n/**\n * Returns a set containing all elements of the original
set except the elements contained in the given [elements] array.\n *\n * The returned set preserves the element
iteration order of the original set.\n *\n * Before Kotlin 1.6, the [elements] array may have been converted to a
[HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation
of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back
with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n
*/\n\npublic operator
fun <T> Set<T>.minus(elements: Array<out T>): Set<T> {\n    val result = LinkedHashSet<T>(this)\n
result.removeAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set
except the elements contained in the given [elements] collection.\n *\n * The returned set preserves the element
iteration order of the original set.\n *\n * Before Kotlin 1.6, the [elements] collection may have been converted to a
[HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation
of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back
with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n
*/\n\npublic operator
fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {\n    val other =
elements.convertToSetForSetOperationWith(this)\n    if (other.isEmpty())\n        return this.toSet()\n    if (other is
Set)\n        return this.filterNotTo(LinkedHashSet<T>()) { it in other }\n    val result = LinkedHashSet<T>(this)\n
result.removeAll(other)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set
except the elements contained in the given [elements] sequence.\n *\n * The returned set preserves the element

```

iteration order of the original set.

`Before Kotlin 1.6, the [elements] sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have a correct and stable implementation of hashCode() that didn't change between successive invocations.`

`On JVM, you can enable this behavior back with the system property kotlin.collections.convert_arg_to_set_in_removeAll set to true.`

`public operator fun <T> Set<T>.minus(elements: Sequence<T>): Set<T> { val result = LinkedHashSet<T>(this) result.removeAll(elements) return result }`

`Returns a set containing all elements of the original set except the given [element].`

`The returned set preserves the element iteration order of the original set.`

`@kotlin.internal.InlineOnly public inline fun <T> Set<T>.minusElement(element: T): Set<T> { return minus(element) }`

`Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.`

`The returned set preserves the element iteration order of the original set.`

`public operator fun <T> Set<T>.plus(element: T): Set<T> { val result = LinkedHashSet<T>(mapCapacity(size + 1)) result.addAll(this) result.add(element) return result }`

`Returns a set containing all elements of the original set and the given [elements] array, which aren't already in this set.`

`The returned set preserves the element iteration order of the original set.`

`public operator fun <T> Set<T>.plus(elements: Array<out T>): Set<T> { val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size)) result.addAll(this) result.addAll(elements) return result }`

`Returns a set containing all elements of the original set and the given [elements] collection, which aren't already in this set.`

`The returned set preserves the element iteration order of the original set.`

`public operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> { val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let { this.size + it } ?: this.size * 2)) result.addAll(this) result.addAll(elements) return result }`

`Returns a set containing all elements of the original set and the given [elements] sequence, which aren't already in this set.`

`The returned set preserves the element iteration order of the original set.`

`public operator fun <T> Set<T>.plus(elements: Sequence<T>): Set<T> { val result = LinkedHashSet<T>(mapCapacity(this.size * 2)) result.addAll(this) result.addAll(elements) return result }`

`Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.`

`The returned set preserves the element iteration order of the original set.`

`@kotlin.internal.InlineOnly public inline fun <T> Set<T>.plusElement(element: T): Set<T> { return plus(element) }`

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`@file:kotlin.jvm.JvmMultifileClass @file:kotlin.jvm.JvmName("StringsKt") @package kotlin.text`

`NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt`

`See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib`

`nimport kotlin.random.`

`Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.`

`@sample samples.collections.Collections.Elements.elementAt`

`public expect fun CharSequence.elementAt(index: Int): Char`

`Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.`

`@sample samples.collections.Collections.Elements.elementAtOrElse`

`@kotlin.internal.InlineOnly public inline fun CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char { return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) }`

`Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.`

`@sample samples.collections.Collections.Elements.elementAtOrNull`

`@kotlin.internal.InlineOnly public inline fun CharSequence.elementAtOrNull(index: Int): Char?`

`return this.getOrNull(index)`

`Returns the first character matching the given [predicate], or `null` if no such character was found.`

`@sample samples.collections.Collections.Elements.find`

`@kotlin.internal.InlineOnly public inline fun CharSequence.find(predicate: (Char) -> Boolean): Char?`

`return firstOrNull(predicate)`

`Returns the last character matching the given [predicate], or `null` if no such character was found.`

`@sample samples.collections.Collections.Elements.find`

`@kotlin.internal.InlineOnly public inline fun`

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CharSequence.findLast(predicate: (Char) -> Boolean): Char? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns first character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n */\npublic fun\nCharSequence.first(): Char {\n  if (isEmpty())\n    throw NoSuchElementException("Char sequence is\nempty.")\n  return this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate].\n * @throws\n[NoSuchElementException] if no such character is found.\n */\npublic inline fun CharSequence.first(predicate:\n(Char) -> Boolean): Char {\n  for (element in this) if (predicate(element)) return element\n  throw\nNoSuchElementException("Char sequence contains no character matching the predicate.")\n}\n\n/**\n * Returns\nthe first non-null value produced by [transform] function being applied to characters of this char sequence in\niteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n */\n * @sample\nsamples.collections.Collections.Transformations.firstNotNullOf\n\n*/\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <R : Any>\nCharSequence.firstNotNullOf(transform: (Char) -> R?): R {\n  return firstNotNullOfOrNull(transform) ?: throw\nNoSuchElementException("No element of the char sequence was transformed to a non-null value.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to characters of this char sequence in\niteration order,\n * or `null` if no non-null value was produced.\n */\n * @sample\nsamples.collections.Collections.Transformations.firstNotNullOf\n\n*/\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <R : Any>\nCharSequence.firstNotNullOfOrNull(transform: (Char) -> R?): R? {\n  for (element in this) {\n    val result =\ntransform(element)\n    if (result != null) {\n      return result\n    }\n  }\n  return null\n}\n\n/**\n * Returns the first character, or `null` if the char sequence is empty.\n */\npublic fun CharSequence.firstOrNull():\nChar? {\n  return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first character matching the given\n[predicate], or `null` if character was not found.\n */\npublic inline fun CharSequence.firstOrNull(predicate: (Char) -\n> Boolean): Char? {\n  for (element in this) if (predicate(element)) return element\n  return null\n}\n\n/**\n * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of\nbounds of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrElse(index:\nInt, defaultValue: (Int) -> Char): Char {\n  return if (index >= 0 && index <= lastIndex) get(index) else\ndefaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of\nthis char sequence.\n */\n * @sample\nsamples.collections.Collections.Elements.getOrNull\n */\npublic fun\nCharSequence.getOrNull(index: Int): Char? {\n  return if (index >= 0 && index <= lastIndex) get(index) else\nnull\n}\n\n/**\n * Returns index of the first character matching the given [predicate], or -1 if the char sequence does\nnot contain such character.\n */\npublic inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int {\n  for (index in indices) {\n    if (predicate(this[index])) {\n      return index\n    }\n  }\n  return -\n1\n}\n\n/**\n * Returns index of the last character matching the given [predicate], or -1 if the char sequence does\nnot contain such character.\n */\npublic inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int {\n  for (index in indices.reversed()) {\n    if (predicate(this[index])) {\n      return index\n    }\n  }\n  return -\n1\n}\n\n/**\n * Returns the last character.\n */\n * @throws NoSuchElementException if the char sequence is\nempty.\n */\n * @sample\nsamples.text.Strings.last\n */\npublic fun CharSequence.last(): Char {\n  if (isEmpty())\n    throw NoSuchElementException("Char sequence is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the\nlast character matching the given [predicate].\n */\n * @throws NoSuchElementException if no such character is\nfound.\n */\n * @sample\nsamples.text.Strings.last\n */\npublic inline fun CharSequence.last(predicate: (Char) ->\nBoolean): Char {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if\n(predicate(element)) return element\n  }\n  throw NoSuchElementException("Char sequence contains no\ncharacter matching the predicate.")\n}\n\n/**\n * Returns the last character, or `null` if the char sequence is\nempty.\n */\n * @sample\nsamples.text.Strings.last\n */\npublic fun CharSequence.lastOrNull(): Char? {\n  return if\n(isEmpty()) null else this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null`\nif no such character was found.\n */\n * @sample\nsamples.text.Strings.last\n */\npublic inline fun\nCharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if (predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns a

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random character from this char sequence.\n * \n * @throws NoSuchElementException if this char sequence is
empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.random(): Char
{\n    return random(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified
source of randomness.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n
*/\n@SinceKotlin("1.3")\npublic fun CharSequence.random(random: Random): Char {\n    if (isEmpty())\n    throw NoSuchElementException("Char sequence is empty.")\n    return get(random.nextInt(length))\n}\n\n/**\n * Returns a random character from this char sequence, or `null` if this char sequence is empty.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun CharSequence.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random character from this char sequence using the specified source of randomness, or `null` if this char sequence is
empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
CharSequence.randomOrNull(random: Random): Char? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(length))\n}\n\n/**\n * Returns the single character, or throws an exception if the char sequence
is empty or has more than one character.\n */\npublic fun CharSequence.single(): Char {\n    return when (length)
{\n        0 -> throw NoSuchElementException("Char sequence is empty.")\n        1 -> this[0]\n        else -> throw
IllegalArgumentException("Char sequence has more than one element.")\n    }\n}\n\n/**\n * Returns the single
character matching the given [predicate], or throws exception if there is no or more than one matching character.\n
*/\npublic inline fun CharSequence.single(predicate: (Char) -> Boolean): Char {\n    var single: Char? = null\n    var
found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentException("Char sequence contains more than one matching element.")\n            single =
element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Char sequence
contains no character matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as
Char\n}\n\n/**\n * Returns single character, or `null` if the char sequence is empty or has more than one character.\n
*/\npublic fun CharSequence.singleOrNull(): Char? {\n    return if (length == 1) this[0] else null\n}\n\n/**\n *
Returns the single character matching the given [predicate], or `null` if character was not found or more than one
character was found.\n */\npublic inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {\n
    var single: Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n
            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return
single\n}\n\n/**\n * Returns a subsequence of this char sequence with the first [n] characters removed.\n * \n *
@throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun
CharSequence.drop(n: Int): CharSequence {\n    require(n >= 0) { "Requested character count $n is less than zero."
}\n    return subSequence(n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string with the first [n] characters
removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.text.Strings.drop\n */\npublic fun String.drop(n: Int): String {\n    require(n >= 0) { "Requested character
count $n is less than zero." }\n    return substring(n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of
this char sequence with the last [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun CharSequence.dropLast(n: Int):
CharSequence {\n    require(n >= 0) { "Requested character count $n is less than zero." }\n    return take((length -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a string with the last [n] characters removed.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun
String.dropLast(n: Int): String {\n    require(n >= 0) { "Requested character count $n is less than zero." }\n    return
take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a subsequence of this char sequence containing all
characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n
*/\npublic inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {\n    for (index in
lastIndex downTo 0)\n        if (!predicate(this[index]))\n            return subSequence(0, index + 1)\n    return
""\n}\n\n/**\n * Returns a string containing all characters except last characters that satisfy the given [predicate].\n
*/\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun String.dropLastWhile(predicate: (Char) ->
Boolean): String {\n    for (index in lastIndex downTo 0)\n        if (!predicate(this[index]))\n            return

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substring(0, index + 1)\n    return ""\n}\n\n/**\n * Returns a subsequence of this char sequence containing all
characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n * \n\npublic inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {\n    for (index in
this.indices)\n        if (!predicate(this[index]))\n            return subSequence(index, length)\n    return ""\n}\n\n/**\n * Returns a string containing all characters except first characters that satisfy the given [predicate].\n * \n *
@sample samples.text.Strings.drop\n * \n\npublic inline fun String.dropWhile(predicate: (Char) -> Boolean): String
{\n    for (index in this.indices)\n        if (!predicate(this[index]))\n            return substring(index)\n    return
""\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that
match the given [predicate].\n * \n * @sample samples.text.Strings.filter\n * \n\npublic inline fun
CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {\n    return filterTo(StringBuilder(),
predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that match the
given [predicate].\n * \n * @sample samples.text.Strings.filter\n * \n\npublic inline fun String.filter(predicate: (Char) -
> Boolean): String {\n    return filterTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Returns a char sequence
containing only those characters from the original char sequence that match the given [predicate].\n * @param
[predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate
evaluation on the character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n * \n\npublic
inline fun CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {\n    return
filterIndexedTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the
original string that match the given [predicate].\n * @param [predicate] function that takes the index of a character
and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n * \n\npublic inline fun String.filterIndexed(predicate: (index:
Int, Char) -> Boolean): String {\n    return filterIndexedTo(StringBuilder(), predicate).toString()\n}\n\n/**\n *
Appends all characters matching the given [predicate] to the given [destination].\n * @param [predicate] function
that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the
character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n * \n\npublic inline fun <C :
Appendable> CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n
forEachIndexed { index, element ->\n    if (predicate(index, element)) destination.append(element)\n    }\n    return
destination\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char
sequence that do not match the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n * \n\npublic inline
fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {\n    return filterNotTo(StringBuilder(),
predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that do not match
the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n * \n\npublic inline fun
String.filterNot(predicate: (Char) -> Boolean): String {\n    return filterNotTo(StringBuilder(),
predicate).toString()\n}\n\n/**\n * Appends all characters not matching the given [predicate] to the given
[destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n * \n\npublic inline fun <C :
Appendable> CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n    for (element in this)
if (!predicate(element)) destination.append(element)\n    return destination\n}\n\n/**\n * Appends all characters
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n * \n\npublic inline fun <C : Appendable>
CharSequence.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n    for (index in 0 until length) {\n        val
element = get(index)\n        if (predicate(element)) destination.append(element)\n    }\n    return
destination\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence at the
specified range of [indices].\n * \n\npublic fun CharSequence.slice(indices: IntRange): CharSequence {\n    if
(indices.isEmpty()) return ""\n    return subSequence(indices)\n}\n\n/**\n * Returns a string containing characters
of the original string at the specified range of [indices].\n * \n\npublic fun String.slice(indices: IntRange): String {\n
if (indices.isEmpty()) return ""\n    return substring(indices)\n}\n\n/**\n * Returns a char sequence containing
characters of the original char sequence at specified [indices].\n * \n\npublic fun CharSequence.slice(indices:
Iterable<Int>): CharSequence {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return ""\n

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val result = StringBuilder(size)\n  for (i in indices) {\n    result.append(get(i))\n  }\n  return result\n}\n\n/**\n * Returns a string containing characters of the original string at specified [indices].\n *\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.slice(indices: Iterable<Int>): String {\n  return (this as\n  CharSequence).slice(indices).toString()\n}\n\n/**\n * Returns a subsequence of this char sequence containing the\n  first [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n *\n * @throws IllegalArgumentException if [n] is negative.\n * \n *\n * @sample samples.text.Strings.take\n */\npublic fun\n  CharSequence.take(n: Int): CharSequence {\n  require(n >= 0) { \"Requested character count $n is less than zero.\" }\n  return subSequence(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a string containing the first [n]\n  characters from this string, or the entire string if this string is shorter.\n * \n *\n * @throws IllegalArgumentException if\n  [n] is negative.\n * \n *\n * @sample samples.text.Strings.take\n */\npublic fun String.take(n: Int): String {\n  require(\n  >= 0) { \"Requested character count $n is less than zero.\" }\n  return substring(0,\n  n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing the last [n]\n  characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n *\n * @throws\n  IllegalArgumentException if [n] is negative.\n * \n *\n * @sample samples.text.Strings.take\n */\npublic fun\n  CharSequence.takeLast(n: Int): CharSequence {\n  require(n >= 0) { \"Requested character count $n is less than\n  zero.\" }\n  val length = length\n  return subSequence(length - n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.\n * \n *\n * @throws\n  IllegalArgumentException if [n] is negative.\n * \n *\n * @sample samples.text.Strings.take\n */\npublic fun\n  String.takeLast(n: Int): String {\n  require(n >= 0) { \"Requested character count $n is less than zero.\" }\n  val\n  length = length\n  return substring(length - n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this\n  char sequence containing last characters that satisfy the given [predicate].\n * \n *\n * @sample\n  samples.text.Strings.take\n */\npublic inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean):\n  CharSequence {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n      return\n      subSequence(index + 1, length)\n    }\n  }\n  return subSequence(0, length)\n}\n\n/**\n * Returns a string\n  containing last characters that satisfy the given [predicate].\n * \n *\n * @sample\n  samples.text.Strings.take\n */\npublic\n  inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {\n  for (index in lastIndex downTo 0) {\n    if\n    (!predicate(this[index])) {\n      return\n      substring(index + 1)\n    }\n  }\n  return this\n}\n\n/**\n * Returns\n  a subsequence of this char sequence containing the first characters that satisfy the given [predicate].\n * \n *\n * @sample\n  samples.text.Strings.take\n */\npublic inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean):\n  CharSequence {\n  for (index in 0 until length)\n    if (!predicate(get(index))) {\n      return\n      subSequence(0,\n      index)\n    }\n  return subSequence(0, length)\n}\n\n/**\n * Returns a string containing the first characters that\n  satisfy the given [predicate].\n * \n *\n * @sample\n  samples.text.Strings.take\n */\npublic inline fun\n  String.takeWhile(predicate: (Char) -> Boolean): String {\n  for (index in 0 until length)\n    if\n    (!predicate(get(index))) {\n      return\n      substring(0, index)\n    }\n  return this\n}\n\n/**\n * Returns a char\n  sequence with characters in reversed order.\n */\npublic fun CharSequence.reversed(): CharSequence {\n  return\n  StringBuilder(this).reverse()\n}\n\n/**\n * Returns a string with characters in reversed order.\n *\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.reversed(): String {\n  return (this as\n  CharSequence).reversed().toString()\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by\n  [transform] function\n * applied to characters of the given char sequence.\n * \n *\n * If any of two pairs would have the\n  same key the last one gets added to the map.\n * \n *\n * The returned map preserves the entry iteration order of the\n  original char sequence.\n * \n *\n * @sample\n  samples.text.Strings.associate\n */\npublic inline fun <K, V>\n  CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n  val capacity =\n  mapCapacity(length).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),\n  transform)\n}\n\n/**\n * Returns a [Map] containing the characters from the given char sequence indexed by the\n  key\n * returned from [keySelector] function applied to each character.\n * \n *\n * If any two characters would have the\n  same key returned by [keySelector] the last one gets added to the map.\n * \n *\n * The returned map preserves the entry\n  iteration order of the original char sequence.\n * \n *\n * @sample\n  samples.text.Strings.associateBy\n */\npublic inline\n  fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n  val capacity =

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mapCapacity(length).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Char>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by
[keySelector] functions applied to characters of the given char sequence.\n * \n * If any two characters would have
the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the
entry iteration order of the original char sequence.\n * \n * @sample
samples.text.Strings.associateByWithValueTransform\n */\npublic inline fun <K, V>
CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n  val capacity
= mapCapacity(length).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value
pairs,\n * where key is provided by the [keySelector] function applied to each character of the given char sequence\
\n * and value is the character itself.\n * \n * If any two characters would have the same key returned by [keySelector]
the last one gets added to the map.\n * \n * @sample samples.text.Strings.associateByTo\n */\npublic inline fun <K,
M : MutableMap<in K, in Char>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {\n
for (element in this) {\n  destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function and\n * and value is provided by the [valueTransform] function applied to characters of the
given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one
gets added to the map.\n * \n * @sample samples.text.Strings.associateByToWithValueTransform\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char)
-> K, valueTransform: (Char) -> V): M {\n  for (element in this) {\n  destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each character of the given char
sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
samples.text.Strings.associateTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>>
CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n  for (element in this) {\n
destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are
characters from the given char sequence and values are\n * produced by the [valueSelector] function applied to each
character.\n * \n * If any two characters are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original char sequence.\n * \n * @sample
samples.text.Strings.associateWith\n */\n@SinceKotlin("1.3")\npublic inline fun <V>
CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n  val result = LinkedHashMap<Char,
V>(mapCapacity(length.coerceAtMost(128)).coerceAtLeast(16))\n  return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
character of the given char sequence,\n * where key is the character itself and value is provided by the
[valueSelector] function applied to that key.\n * \n * If any two characters are equal, the last one overwrites the
former value in the map.\n * \n * @sample samples.text.Strings.associateWithTo\n
*/\n@SinceKotlin("1.3")\npublic inline fun <V, M : MutableMap<in Char, in V>>
CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Appends all characters to
the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>>
CharSequence.addToCollection(destination: C): C {\n  for (item in this) {\n  destination.add(item)\n }\n return
destination\n}\n\n/**\n * Returns a new [HashSet] of all characters.\n */\npublic fun
CharSequence.toHashSet(): HashSet<Char> {\n  return toCollection(HashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n}\n\n/**\n *
Returns a [List] containing all characters.\n */\npublic fun CharSequence.toList(): List<Char> {\n  return when
(length) {\n    0 -> emptyList()\n    1 -> listOf(this[0])\n    else -> this.toMutableList()\n }\n}\n\n/**\n *
Returns a new [MutableList] filled with all characters of this char sequence.\n */\npublic fun
CharSequence.toMutableList(): MutableList<Char> {\n  return toCollection(ArrayList<Char>(length))\n}\n\n/**\n *
Returns a [Set] of all characters.\n * \n * The returned set preserves the element iteration order of the original char

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sequence.\n */\npublic fun CharSequence.toSet(): Set<Char> {\n    return when (length) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n    }\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on\n * each character of original char sequence.\n * \n * @sample\n * samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R>\nCharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),\n    transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being\n * invoked on each character\n * and its index in the original char sequence.\n * \n * @sample\n * samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic\ninline fun <R> CharSequence.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n    return\n    flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of\n * [transform] function being invoked on each character\n * and its index in the original char sequence, to the given\n * [destination].\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic\ninline fun <R, C : MutableCollection<in R>> CharSequence.flatMapIndexedTo(destination: C, transform: (index:\nInt, Char) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,\n        element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from\n * results of [transform] function being invoked on each character of original char sequence, to the given\n * [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C,\ntransform: (Char) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Groups characters of the original char sequence by\n * the key returned by the given [keySelector] function\n * applied to each character and returns a map where each\n * group key is associated with a list of corresponding characters.\n * \n * The returned map preserves the entry\n * iteration order of the keys produced from the original char sequence.\n * \n * @sample\n * samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K>\nCharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n    return\n    groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the\n * [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the\n * given [keySelector] function applied to the character\n * and returns a map where each group key is associated with\n * a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced\n * from the original char sequence.\n * \n * @sample\n * samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V>\nCharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n    return\n    groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups\n * characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each\n * character and puts to the [destination] map each group key associated with a list of corresponding characters.\n * \n * @return The [destination] map.\n * \n * @sample\n * samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.groupByTo(destination: M,\nkeySelector: (Char) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =\n        destination.getOrPut(key) { ArrayList<Char>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to the character\n * and puts to the [destination] map\n * each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample\n * samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V,\nM : MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K,

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valueTransform: (Char) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

Creates a [Grouping] source from a char sequence to be used later with one of group-and-fold operations using the specified [keySelector] function to extract a key from each character.

@sample
samples.collections.Grouping.groupingByEachCount

Since Kotlin("1.1")
public inline fun <K> CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {
    return object : Grouping<Char, K> {
        override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()
        override fun keyOf(element: Char): K = keySelector(element)
    }
}

Returns a list containing the results of applying the given [transform] function to each character in the original char sequence.

@sample
samples.text.Strings.map

public inline fun <R> CharSequence.map(transform: (Char) -> R): List<R> {
    return mapTo(ArrayList<R>(length), transform)
}

Returns a list containing the results of applying the given [transform] function to each character and its index in the original char sequence.

@param [transform] function that takes the index of a character and the character itself and returns the result of the transform applied to the character.

public inline fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(length), transform)
}

Returns a list containing only the non-null results of applying the given [transform] function to each character and its index in the original char sequence.

@param [transform] function that takes the index of a character and the character itself and returns the result of the transform applied to the character.

public inline fun <R : Any> CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {
    return mapIndexedNotNullTo(ArrayList<R>(), transform)
}

Applies the given [transform] function to each character and its index in the original char sequence and appends only the non-null results to the given [destination].

@param [transform] function that takes the index of a character and the character itself and returns the result of the transform applied to the character.

public inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (index: Int, Char) -> R?): C {
    forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }
    return destination
}

Applies the given [transform] function to each character and its index in the original char sequence and appends the results to the given [destination].

@param [transform] function that takes the index of a character and the character itself and returns the result of the transform applied to the character.

public inline fun <R, C : MutableCollection<in R>> CharSequence.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {
    var index = 0
    for (item in this) destination.add(transform(index++, item))
    return destination
}

Returns a list containing only the non-null results of applying the given [transform] function to each character in the original char sequence.

@sample
samples.collections.Collections.Transformations.mapNotNull

public inline fun <R : Any> CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

Applies the given [transform] function to each character in the original char sequence and appends only the non-null results to the given [destination].

public inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapNotNullTo(destination: C, transform: (Char) -> R?): C {
    forEach { element -> transform(element)?.let { destination.add(it) } }
    return destination
}

Applies the given [transform] function to each character of the original char sequence and appends the results to the given [destination].

public inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C, transform: (Char) -> R): C {
    for (item in this) destination.add(transform(item))
    return destination
}

Returns a lazy [Iterable] that wraps each character of the original char sequence into an [IndexedValue] containing the index of that character and the character itself.

public fun CharSequence.withIndex(): Iterable<IndexedValue<Char>> {
    return IndexingIterable { iterator() }
}

Returns `true` if all characters match the given [predicate].

@sample
samples.collections.Collections.Aggregates.all

public inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

Returns `true` if char sequence has at least one character.

@sample

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samples.collections.Collections.Aggregates.any\n * \npublic fun CharSequence.any(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if at least one character matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n * \npublic inline fun CharSequence.any(predicate:
(Char) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns the length of this char sequence.\n * \n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.count(): Int {\n    return length\n}\n\n/**\n * Returns the number of characters matching the given
[predicate].\n * \npublic inline fun CharSequence.count(predicate: (Char) -> Boolean): Int {\n    var count = 0\n
for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n * to current accumulator value and each character.\n * \n
* Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes
current accumulator value and a character, and calculates the next accumulator value.\n * \npublic inline fun <R>
CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {\n    var accumulator = initial\n    for (element in
this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
character with its index in the original char sequence.\n * \n * Returns the specified [initial] value if the char
sequence is empty.\n * \n * @param [operation] function that takes the index of a character, current accumulator
value\n * and the character itself, and calculates the next accumulator value.\n * \npublic inline fun <R>
CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n    var index = 0\n    var
accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each character and current accumulator value.\n * \n * Returns the specified [initial] value if the char
sequence is empty.\n * \n * @param [operation] function that takes a character and current accumulator value, and
calculates the next accumulator value.\n * \npublic inline fun <R> CharSequence.foldRight(initial: R, operation:
(Char, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n    } \n    return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from right to left\n * to each character with its index in the
original char sequence and current accumulator value.\n * \n * Returns the specified [initial] value if the char
sequence is empty.\n * \n * @param [operation] function that takes the index of a character, the character itself\n *
and current accumulator value, and calculates the next accumulator value.\n * \npublic inline fun <R>
CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n    var index =
lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    } \n    return accumulator\n}\n\n/**\n * Performs the given [action] on each
character.\n * \npublic inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {\n    for (element in this)
action(element)\n}\n\n/**\n * Performs the given [action] on each character, providing sequential index with the
character.\n * \n * @param [action] function that takes the index of a character and the character itself\n * and performs
the action on the character.\n * \npublic inline fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit):
Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n@Deprecated("Use maxOrNull
instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic fun CharSequence.max(): Char? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> CharSequence.maxBy(selector: (Char) ->
R): Char? {\n    return maxByOrNull(selector)\n}\n\n/**\n * Returns the first character yielding the largest value of
the given function or `null` if there are no characters.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n * \n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> CharSequence.maxByOrNull(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n    var
maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)

```

```

{\n      maxElem = e\n      maxValue = v\n    }\n } return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n\n*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n\n*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharSequence.maxOf(selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector: (Char) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector: (Char) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharSequence.maxOfOrNull(selector: (Char) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n\n*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.maxOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if

```

```

(comparator.compare(maxValue, v) < 0) {
    maxValue = v
}
return maxValue
}
Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each character in the char sequence or `null` if there are no characters.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R>
CharSequence.maxOfOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {
    if (isEmpty())
        return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}
Returns the largest character or `null` if there are no characters.
*/
@SinceKotlin("1.4")
public fun
CharSequence.maxOrNull(): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}
@Deprecated("Use maxWithOrNull instead.", ReplaceWith("this.maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")
public fun CharSequence.maxWith(comparator: Comparator<in Char>): Char? {
    return maxWithOrNull(comparator)
}
Returns the first character having the largest value according to the provided [comparator] or `null` if there are no characters.
*/
@SinceKotlin("1.4")
public fun CharSequence.maxWithOrNull(comparator: Comparator<in Char>): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")
public fun CharSequence.min(): Char? {
    return minOrNull()
}
@Deprecated("Use minByOrNull instead.",
ReplaceWith("this.minByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public inline fun <R : Comparable<R>>
CharSequence.minBy(selector: (Char) -> R): Char? {
    return minByOrNull(selector)
}
Returns the first character yielding the smallest value of the given function or `null` if there are no characters.
*/
@sample
collections.Collections.Aggregates.minByOrNull
*/
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>>
CharSequence.minByOrNull(selector: (Char) -> R): Char? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}
Returns the smallest value among all values produced by [selector] function applied to each character in the char sequence.
*/
If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
*/
@throws
NoSuchElementException if the char sequence is empty.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharSequence.minOf(selector: (Char) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
Returns the smallest value among all values produced by [selector] function applied to each character in the char sequence.
*/
If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
*/
@throws
NoSuchElementException if the char sequence is empty.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharSequence.minOf(selector: (Char) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
Returns the smallest value among all values produced by [selector] function applied to each character in the char sequence.
*/
@throws
NoSuchElementException if the char sequence is empty.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
CharSequence.minOf(selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var

```

```

minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no
characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOfOrNull(selector:
(Char) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOfOrNull(selector:
(Char) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each
character in the char
sequence or `null` if there are no characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.minOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n
*\n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.minOfWith(comparator:
Comparator<in R>, selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the
smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each character in the char sequence or `null` if there are no characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharSequence.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the
smallest character or `null` if there are no characters.\n
*\n@SinceKotlin("1.4")\npublic fun
CharSequence.minOrNull(): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n@Deprecated("Use minWithOrNull
instead.", ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun CharSequence.minWith(comparator: Comparator<in
Char>): Char? {\n return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first character having the smallest
value according to the provided [comparator] or `null` if there are no characters.\n
*\n@SinceKotlin("1.4")\npublic fun CharSequence.minWithOrNull(comparator: Comparator<in Char>): Char?
{\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the char sequence has
no characters.\n * \n * @sample samples.collections.Collections.Aggregates.none\n *\npublic fun
CharSequence.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if no characters match the given

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[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n * \n\npublic inline fun
CharSequence.none(predicate: (Char) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
false\n    return true\n}\n\n/**\n * Performs the given [action] on each character and returns the char sequence itself
afterwards.\n * \n\n@SinceKotlin("1.1")\n\npublic inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S
{\n    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each
character, providing sequential index with the character,\n * and returns the char sequence itself afterwards.\n *
@param [action] function that takes the index of a character and the character itself\n * and performs the action on
the character.\n * \n\n@SinceKotlin("1.4")\n\npublic inline fun <S : CharSequence> S.onEachIndexed(action: (index:
Int, Char) -> Unit): S {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with
the first character and applying [operation] from left to right\n * to current accumulator value and each character.\n *
\n * Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n *
please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * \n * @param [operation] function
that takes current accumulator value and a character,\n * and calculates the next accumulator value.\n * \n *
\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n * \n\npublic inline fun
CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char {\n    if (isEmpty())\n        throw
UnsupportedOperationException("Empty char sequence can't be reduced.")\n    var accumulator = this[0]\n    for
(index in 1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to
right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n *
\n * Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n *
please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * \n * @param [operation]
function that takes the index of a character, current accumulator value and the character itself,\n * and calculates the
next accumulator value.\n * \n * \n * @sample samples.collections.Collections.Aggregates.reduce\n * \n\npublic inline fun
CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n    if (isEmpty())\n        throw
UnsupportedOperationException("Empty char sequence can't be reduced.")\n    var accumulator = this[0]\n    for
(index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to
right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n *
\n * Returns `null` if the char sequence is empty.\n * \n * \n * @param [operation] function that takes the index of a
character, current accumulator value and the character itself,\n * and calculates the next accumulator value.\n * \n *
\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n * \n\n@SinceKotlin("1.4")\n\npublic inline fun
CharSequence.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? {\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(index,
accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first
character and applying [operation] from left to right\n * to current accumulator value and each character.\n * \n *
\n * Returns `null` if the char sequence is empty.\n * \n * \n * @param [operation] function that takes current accumulator
value and a character,\n * and calculates the next accumulator value.\n * \n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n * \n\n@SinceKotlin("1.4")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic inline fun
CharSequence.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation]
from right to left\n * to each character and current accumulator value.\n * \n * \n * Throws an exception if this char
sequence is empty. If the char sequence can be empty in an expected way,\n * please use [reduceRightOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * \n * @param [operation] function that takes a character and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n * \n\npublic inline fun
CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n    var index = lastIndex\n    if (index < 0)

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throw UnsupportedOperationException("Empty char sequence can't be reduced.")\n  var accumulator = get(index-
-)\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to
left\n * to each character with its index in the original char sequence and current accumulator value.\n * \n * Throws
an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic
inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n  var index
= lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")\n
var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last
character and applying [operation] from right to left\n * to each character with its index in the original char sequence
and current accumulator value.\n * \n * Returns `null` if the char sequence is empty.\n * \n * @param [operation]
function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n@SinceKotlin("1.4")\npublic inline fun CharSequence.reduceRightIndexedOrNull(operation: (index: Int, Char,
acc: Char) -> Char): Char? {\n  var index = lastIndex\n  if (index < 0) return null\n  var accumulator = get(index-
-)\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from
right to left\n * to each character and current accumulator value.\n * \n * Returns `null` if the char sequence is
empty.\n * \n * @param [operation] function that takes a character and current accumulator value,\n * and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n  var index = lastIndex\n  if
(index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator =
operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each character and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes current accumulator value and a character, and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin("1.4")\npublic inline fun
<R> CharSequence.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(length + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each character, its index in the original char sequence and current accumulator
value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes the index of a character, current accumulator value\n * and the character itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin("1.4")\npublic inline fun <R> CharSequence.runningFoldIndexed(initial: R, operation: (index:
Int, acc: R, Char) -> R): List<R> {\n  if (isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(length +
1).apply { add(initial) }\n  var accumulator = initial\n  for (index in indices) {\n    accumulator =
operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each character and current accumulator value that starts with the first character of this char sequence.\n * \n * Note
that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous

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value in resulting list.

```

\n * \n * @param [operation] function that takes current accumulator value and a character,
and calculates the next accumulator value.
\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n *
\n@SinceKotlin("1.4")\npublic inline fun
CharSequence.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> {
\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<Char>(length).apply {
add(accumulator) }\n
for (index in 1 until length) {\n accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n }
\n return result\n}\n\n/**
\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each character, its index in the original char
sequence and current accumulator value that starts with the first character of this char sequence.
\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.
\n * \n * @param [operation] function that takes the index of a character, current accumulator value\n *
and the character itself, and calculates the next accumulator value.
\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n *
\n@SinceKotlin("1.4")\npublic inline fun
CharSequence.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {
\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Char>(length).apply {
add(accumulator) }\n
for (index in 1 until length) {\n accumulator = operation(index, accumulator,
this[index])\n result.add(accumulator)\n }
\n return result\n}\n\n/**
\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each character and current
accumulator value that starts with [initial] value.
\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.
\n * \n * @param [operation]
function that takes current accumulator value and a character, and calculates the next accumulator value.
\n * \n *
\n * @sample samples.collections.Collections.Aggregates.scan\n
\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>
CharSequence.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {
\n return runningFold(initial,
operation)\n}\n\n/**
\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each character, its index in the original char sequence and current accumulator value that
starts with [initial] value.
\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.
\n * \n * @param [operation] function that takes the
index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator
value.
\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>
CharSequence.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {
\n return
runningFoldIndexed(initial, operation)\n}\n\n/**
\n * Returns the sum of all values produced by [selector] function
applied to each character in the char sequence.
\n * \n * @Deprecated("Use sumOf instead.")
\n * ReplaceWith("this.sumOf(selector)")\n * @DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharSequence.sumBy(selector: (Char) -> Int): Int {
\n var sum: Int = 0\n for (element in this) {\n sum +=
selector(element)\n }
\n return sum\n}\n\n/**
\n * Returns the sum of all values produced by [selector] function
applied to each character in the char sequence.
\n * \n * @Deprecated("Use sumOf instead.")
\n * ReplaceWith("this.sumOf(selector)")\n * @DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharSequence.sumByDouble(selector: (Char) -> Double): Double {
\n var sum: Double = 0.0\n for (element in
this) {\n sum += selector(element)\n }
\n return sum\n}\n\n/**
\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.
\n * \n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution
ByLambdaReturnType\n * @kotlin.jvm.JvmName("sumOfDouble")\n * @kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Double): Double {
\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n }
\n return sum\n}\n\n/**
\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.
\n * \n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution

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ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n
        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> UInt): UInt {\n
    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char
sequence.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> ULong):
ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n
return sum\n}\n\n/**\n * Splits this char sequence into a list of strings each not exceeding the given [size].\n * \n *
The last string in the resulting list may have fewer characters than the given [size].\n * \n * @param size the number
of elements to take in each string, must be positive and can be greater than the number of elements in this char
sequence.\n * \n * @sample samples.text.Strings.chunked\n
*\n@SinceKotlin("1.2")\npublic fun
CharSequence.chunked(size: Int): List<String> {\n    return windowed(size, size, partialWindows =
true)\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and
applies the given [transform] function to an each.\n * \n * @return list of results of the [transform] applied to an
each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid
only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot
of it.\n * The last char sequence may have fewer characters than the given [size].\n * \n * @param size the number
of elements to take in each char sequence, must be positive and can be greater than the number of elements in this
char sequence.\n * \n * @sample samples.text.Strings.chunkedTransform\n
*\n@SinceKotlin("1.2")\npublic fun
<R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {\n    return windowed(size, size,
partialWindows = true, transform = transform)\n}\n\n/**\n * Splits this char sequence into a sequence of strings
each not exceeding the given [size].\n * \n * The last string in the resulting sequence may have fewer characters than
the given [size].\n * \n * @param size the number of elements to take in each string, must be positive and can be
greater than the number of elements in this char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.chunked\n
*\n@SinceKotlin("1.2")\npublic fun
CharSequence.chunkedSequence(size: Int): Sequence<String> {\n    return chunkedSequence(size) { it.toString()
}\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and
applies the given [transform] function to an each.\n * \n * @return sequence of results of the [transform] applied to
an each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is
valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a
snapshot of it.\n * The last char sequence may have fewer characters than the given [size].\n * \n * @param size the
number of elements to take in each char sequence, must be positive and can be greater than the number of elements
in this char sequence.\n * \n * @sample samples.text.Strings.chunkedTransformToSequence\n
*\n@SinceKotlin("1.2")\npublic fun <R> CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -
> R): Sequence<R> {\n    return windowedSequence(size, size, partialWindows = true, transform =
transform)\n}\n\n/**\n * Splits the original char sequence into pair of char sequences,\n * where *first* char

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Several last char sequences may have fewer characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n * \n * @SinceKotlin("1.2")\n * public fun <R> CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): Sequence<R> {\n * checkWindowSizeStep(size, step)\n * val windows = (if (partialWindows) indices else 0 until length - size + 1) step step\n * return windows.asSequence().map { index ->\n * val end = index + size\n * val coercedEnd = if (end < 0 || end > length) length else end\n * transform(subSequence(index, coercedEnd))\n * }\n * }\n * \n * Returns a list of pairs built from the characters of `this` and the [other] char sequences with the same index\n * The returned list has length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zip\n * \n * public infix fun CharSequence.zip(other: CharSequence): List<Pair<Char, Char>> {\n * return zip(other) { c1, c2 -> c1 to c2 }\n * }\n * \n * Returns a list of values built from the characters of `this` and the [other] char sequences with the same index\n * using the provided [transform] function applied to each pair of characters.\n * The returned list has length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zipWithTransform\n * \n * public inline fun <V> CharSequence.zip(other: CharSequence, transform: (a: Char, b: Char) -> V): List<V> {\n * val length = minOf(this.length, other.length)\n * val list = ArrayList<V>(length)\n * for (i in 0 until length) {\n * list.add(transform(this[i], other[i]))\n * }\n * return list\n * }\n * \n * Returns a list of pairs of each two adjacent characters in this char sequence.\n * \n * The returned list is empty if this char sequence contains less than two characters.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n * \n * @SinceKotlin("1.2")\n * public fun CharSequence.zipWithNext(): List<Pair<Char, Char>> {\n * return zipWithNext { a, b -> a to b }\n * }\n * \n * Returns a list containing the results of applying the given [transform] function\n * to an each pair of two adjacent characters in this char sequence.\n * \n * The returned list is empty if this char sequence contains less than two characters.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n * \n * @SinceKotlin("1.2")\n * public inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R): List<R> {\n * val size = length - 1\n * if (size < 1) return emptyList()\n * val result = ArrayList<R>(size)\n * for (index in 0 until size) {\n * result.add(transform(this[index], this[index + 1]))\n * }\n * return result\n * }\n * \n * Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.\n * \n * @public fun CharSequence.asIterable(): Iterable<Char> {\n * if (this is String && isEmpty()) return emptyList()\n * return Iterable { this.iterator() }\n * }\n * \n * Creates a [Sequence] instance that wraps the original char sequence returning its characters when being iterated.\n * \n * @public fun CharSequence.asSequence(): Sequence<Char> {\n * if (this is String && isEmpty()) return emptySequence()\n * return Sequence { this.iterator() }\n * }\n * \n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * \n * \n * @file:kotlin.jvm.JvmMultifileClass\n * @file:kotlin.jvm.JvmName("StringsKt")\n * \n * package kotlin.text\n * \n * import kotlin.contracts.contract\n * import kotlin.jvm.JvmName\n * \n * Returns a copy of this string converted to upper case using the rules of the default locale.\n * \n * @Deprecated("Use uppercase() instead.", ReplaceWith("uppercase()"))\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * public expect fun String.toUpperCase(): String\n * \n * Returns a copy of this string converted to upper case using Unicode mapping rules of the invariant locale.\n * \n * This function supports one-to-many and many-to-one character mapping,\n * thus the length of the returned string can be different from the length of the original string.\n * \n * @sample samples.text.Strings.uppercase\n * \n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalStdlibApi::class)\n * public expect fun String.uppercase(): String\n * \n * Returns a copy of this string converted to lower case using the rules of the default locale.\n * \n * @Deprecated("Use lowercase() instead.", ReplaceWith("lowercase()"))\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * public expect fun

String.toLowerCase(): String\n\n**\n * Returns a copy of this string converted to lower case using Unicode mapping rules of the invariant locale.\n * This function supports one-to-many and many-to-one character mapping,\n * thus the length of the returned string can be different from the length of the original string.\n *\n * @sample samples.text.Strings.lowercase\n

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
```

String.lowercase(): String\n\n**\n * Returns a copy of this string having its first letter titlecased using the rules of the default locale,\n * or the original string if it's empty or already starts with a title case letter.\n *\n * The title case of a character is usually the same as its upper case with several exceptions.\n * The particular list of characters with the special title case form depends on the underlying platform.\n *\n * @sample samples.text.Strings.capitalize\n

```
*\n@Deprecated("Use replaceFirstChar instead.", ReplaceWith("replaceFirstChar { if (it.isLowerCase()) it.titlecase() else it.toString() }"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun
```

String.capitalize(): String\n\n**\n * Returns a copy of this string having its first letter lowercased using the rules of the default locale,\n * or the original string if it's empty or already starts with a lower case letter.\n *\n * @sample samples.text.Strings.decapitalize\n

```
*\n@Deprecated("Use replaceFirstChar instead.", ReplaceWith("replaceFirstChar { it.lowercase() }"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun
```

String.decapitalize(): String\n\n**\n * Returns a sub sequence of this char sequence having leading and trailing characters matching the [predicate] removed.\n *\npublic inline fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence {\n var startIndex = 0\n var endIndex = length - 1\n var startFound = false\n while (startIndex <= endIndex) {\n val index = if (!startFound) startIndex else endIndex\n val match = predicate(this[index])\n if (!startFound) {\n if (!match)\n startFound = true\n else\n startIndex += 1\n } else {\n if (!match)\n break\n else\n endIndex -= 1\n }\n }\n return subSequence(startIndex, endIndex + 1)\n}\n\n**\n * Returns a string having leading and trailing characters matching the [predicate] removed.\n *\npublic inline fun String.trim(predicate: (Char) -> Boolean): String =\n (this as CharSequence).trim(predicate).toString()\n\n**\n * Returns a sub sequence of this char sequence having leading characters matching the [predicate] removed.\n *\npublic inline fun CharSequence.trimStart(predicate: (Char) -> Boolean): CharSequence {\n for (index in this.indices)\n if (!predicate(this[index]))\n return subSequence(index, length)\n return ""\n}\n\n**\n * Returns a string having leading characters matching the [predicate] removed.\n *\npublic inline fun String.trimStart(predicate: (Char) -> Boolean): String =\n (this as CharSequence).trimStart(predicate).toString()\n\n**\n * Returns a sub sequence of this char sequence having trailing characters matching the [predicate] removed.\n *\npublic inline fun CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence {\n for (index in this.indices.reversed())\n if (!predicate(this[index]))\n return subSequence(0, index + 1)\n return ""\n}\n\n**\n * Returns a string having trailing characters matching the [predicate] removed.\n *\npublic inline fun String.trimEnd(predicate: (Char) -> Boolean): String =\n (this as CharSequence).trimEnd(predicate).toString()\n\n**\n * Returns a sub sequence of this char sequence having leading and trailing characters from the [chars] array removed.\n *\npublic fun CharSequence.trim(vararg chars: Char): CharSequence = trim { it in chars }\n\n**\n * Returns a string having leading and trailing characters from the [chars] array removed.\n *\npublic fun String.trim(vararg chars: Char): String = trim { it in chars }\n\n**\n * Returns a sub sequence of this char sequence having leading characters from the [chars] array removed.\n *\npublic fun CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart { it in chars }\n\n**\n * Returns a string having leading characters from the [chars] array removed.\n *\npublic fun String.trimStart(vararg chars: Char): String = trimStart { it in chars }\n\n**\n * Returns a sub sequence of this char sequence having trailing characters from the [chars] array removed.\n *\npublic fun CharSequence.trimEnd(vararg chars: Char): CharSequence = trimEnd { it in chars }\n\n**\n * Returns a string having trailing characters from the [chars] array removed.\n *\npublic fun String.trimEnd(vararg chars: Char): String = trimEnd { it in chars }\n\n**\n * Returns a sub sequence of this char sequence having leading and trailing whitespace removed.\n *\npublic fun CharSequence.trim(): CharSequence = trim(Char::isWhitespace)\n\n**\n * Returns a string having leading and trailing whitespace removed.\n *\n@kotlin.internal.InlineOnly\npublic inline fun String.trim(): String = (this as CharSequence).trim().toString()\n\n**\n * Returns a sub sequence of this char sequence having leading whitespace

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removed.\n */\npublic fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)\n\n/**\n * Returns a string having leading whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun\nString.trimStart(): String = (this as CharSequence).trimStart().toString()\n\n/**\n * Returns a sub sequence of this\n char sequence having trailing whitespace removed.\n */\npublic fun CharSequence.trimEnd(): CharSequence =\ntrimEnd(Char::isWhitespace)\n\n/**\n * Returns a string having trailing whitespace removed.\n\n*/\n@kotlin.internal.InlineOnly\npublic inline fun String.trimEnd(): String = (this as\nCharSequence).trimEnd().toString()\n\n/**\n * Returns a char sequence with content of this char sequence padded at\n the beginning\n * to the specified [length] with the specified character or space.\n */\n * @param length the desired\n string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified.\n Space is used by default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char\n sequence prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample\n samples.text.Strings.padStart\n */\npublic fun CharSequence.padStart(length: Int, padChar: Char = ' '):\nCharSequence {\n if (length < 0)\n throw IllegalArgumentException("Desired length $length is less than\n zero.")\n if (length <= this.length)\n return this.subSequence(0, this.length)\n\n val sb =\nStringBuilder(length)\n for (i in 1..(length - this.length))\n sb.append(padChar)\n sb.append(this)\n return\nsb\n}\n\n/**\n * Pads the string to the specified [length] at the beginning with the specified character or space.\n */\n * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less\n than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length]\n consisting of `this` string prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample\n samples.text.Strings.padStart\n */\npublic fun String.padStart(length: Int, padChar: Char = ' '): String =\n(this as CharSequence).padStart(length, padChar).toString()\n\n/**\n * Returns a char sequence with content of this\n char sequence padded at the end\n * to the specified [length] with the specified character or space.\n */\n * @param\n length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the\n [length] specified. Space is used by default.\n * @return Returns a char sequence of length at least [length]\n consisting of `this` char sequence appended with [padChar] as many times\n * as are necessary to reach that\n length.\n * @sample\n samples.text.Strings.padEnd\n */\npublic fun CharSequence.padEnd(length: Int, padChar: Char\n= ' '): CharSequence {\n if (length < 0)\n throw IllegalArgumentException("Desired length $length is less\n than zero.")\n if (length <= this.length)\n return this.subSequence(0, this.length)\n\n val sb =\nStringBuilder(length)\n sb.append(this)\n for (i in 1..(length - this.length))\n sb.append(padChar)\n return\nsb\n}\n\n/**\n * Pads the string to the specified [length] at the end with the specified character or space.\n */\n * @param\n length the desired string length.\n * @param padChar the character to pad string with, if it has length less\n than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length]\n consisting of `this` string appended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample\n samples.text.Strings.padEnd\n */\npublic fun String.padEnd(length: Int, padChar: Char = ' '): String =\n(this as CharSequence).padEnd(length, padChar).toString()\n\n/**\n * Returns `true` if this nullable char sequence is\n either `null` or empty.\n */\n * @sample\n samples.text.Strings.stringOrNullEmpty\n\n*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence?.isNullOrEmpty(): Boolean {\n contract {\n returns(false) implies (this@isNullOrEmpty != null)\n }\n\n return this == null || this.length == 0\n}\n\n/**\n * Returns `true` if this char sequence is empty (contains no characters).\n */\n * @sample\n samples.text.Strings.stringIsEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isEmpty():\nBoolean = length == 0\n\n/**\n * Returns `true` if this char sequence is not empty.\n */\n * @sample\n samples.text.Strings.stringIsNotEmpty\n\n*/\n@kotlin.internal.InlineOnly\npublic inline fun\nCharSequence.isNotEmpty(): Boolean = length > 0\n\n// implemented differently in JVM and JS\n//\npublic fun\nString.isBlank(): Boolean = length() == 0 || all { it.isWhitespace() }\n\n/**\n * Returns `true` if this char sequence\n is not empty and contains some characters except of whitespace characters.\n */\n * @sample\n samples.text.Strings.stringIsNotBlank\n\n*/\n@kotlin.internal.InlineOnly\npublic inline fun\nCharSequence.isNotBlank(): Boolean = !isBlank()\n\n/**\n * Returns `true` if this nullable char sequence is either\n `null` or empty or consists solely of whitespace characters.\n */\n * @sample

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samples.text.Strings.stringOrNullOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence?.isNullOrNull(): Boolean {\n    contract {\n        returns(false) implies (this@isNullOrNull !=
null)\n    }\n    return this == null || this.isBlank()\n}\n\n/**\n * Iterator for characters of the given char sequence.\n *^\npublic operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {\n    private var index = 0\n    public override fun nextChar(): Char = get(index++)\n    public override fun hasNext(): Boolean = index <
length\n}\n\n/** Returns the string if it is not `null`, or the empty string otherwise.
*^\n@kotlin.internal.InlineOnly\npublic inline fun String?.orEmpty(): String = this ?: ""\n\n/**\n * Returns this
char sequence if it's not empty\n * or the result of calling [defaultValue] function if the char sequence is empty.\n
*\n * @sample samples.text.Strings.stringIfEmpty\n
*^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () ->
R): R where C : CharSequence, C : R =\n    if (isEmpty()) defaultValue() else this\n\n/**\n * Returns this char
sequence if it is not empty and doesn't consist solely of whitespace characters,\n * or the result of calling
[defaultValue] function otherwise.\n *^\n * @sample samples.text.Strings.stringIfBlank\n
*^\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifBlank(defaultValue: () -> R):
R where C : CharSequence, C : R =\n    if (isBlank()) defaultValue() else this\n\n/**\n * Returns the range of valid
character indices for this char sequence.\n *^\npublic val CharSequence.indices: IntRange\n    get() = 0..length -
1\n\n/**\n * Returns the index of the last character in the char sequence or -1 if it is empty.\n *^\npublic val
CharSequence.lastIndex: Int\n    get() = this.length - 1\n\n/**\n * Returns `true` if this CharSequence has Unicode
surrogate pair at the specified [index].\n *^\npublic fun CharSequence.hasSurrogatePairAt(index: Int): Boolean {\n
return index in 0..length - 2\n        && this[index].isHighSurrogate()\n        && this[index +
1].isLowSurrogate()\n}\n\n/**\n * Returns a substring specified by the given [range] of indices.\n *^\npublic fun
String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)\n\n/**\n * Returns a
subsequence of this char sequence specified by the given [range] of indices.\n *^\npublic fun
CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive +
1)\n\n/**\n * Returns a subsequence of this char sequence.\n *^\n * This extension is chosen only for invocation with
old-named parameters.\n * Replace parameter names with the same as those of [CharSequence.subSequence].\n
*^\n@kotlin.internal.InlineOnly\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false
warning\n@Deprecated("Use parameters named startIndex and endIndex.", ReplaceWith("subSequence(startIndex
= start, endIndex = end)"))\npublic inline fun String.subSequence(start: Int, end: Int): CharSequence =
subSequence(start, end)\n\n/**\n * Returns a substring of chars from a range of this char sequence starting at the
[startIndex] and ending right before the [endIndex].\n *^\n * @param startIndex the start index (inclusive).\n *
@param endIndex the end index (exclusive). If not specified, the length of the char sequence is used.\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length):
String = subSequence(startIndex, endIndex).toString()\n\n/**\n * Returns a substring of chars at indices from the
specified [range] of this char sequence.\n *^\npublic fun CharSequence.substring(range: IntRange): String =
subSequence(range.start, range.endInclusive + 1).toString()\n\n/**\n * Returns a substring before the first
occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which
defaults to the original string.\n *^\npublic fun String.substringBefore(delimiter: Char, missingDelimiterValue:
String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else
substring(0, index)\n}\n\n/**\n * Returns a substring before the first occurrence of [delimiter].\n * If the string does
not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *^\npublic fun
String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String {\n    val index =
indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns
a substring after the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n *^\npublic fun String.substringAfter(delimiter:
Char, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1)
missingDelimiterValue else substring(index + 1, length)\n}\n\n/**\n * Returns a substring after the first occurrence
of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the

```

```

original string.\n */\npublic fun String.substringAfter(delimiter: String, missingDelimiterValue: String = this):
String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(index +
delimiter.length, length)\n}\n\n/**\n * Returns a substring before the last occurrence of [delimiter].\n * If the string
does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic
fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String {\n    val index =
lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n *
Returns a substring before the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBeforeLast(delimiter:
String, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index ==
-1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring after the last occurrence of
[delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the
original string.\n */\npublic fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this):
String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else
substring(index + 1, length)\n}\n\n/**\n * Returns a substring after the last occurrence of [delimiter].\n * If the
string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\n
public fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {\n    val
index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(index +
delimiter.length, length)\n}\n\n/**\n * Returns a char sequence with content of this char sequence where its part at
the given range\n * is replaced with the [replacement] char sequence.\n * @param startIndex the index of the first
character to be replaced.\n * @param endIndex the index of the first character after the replacement to keep in the
string.\n */\npublic fun CharSequence.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence):
CharSequence {\n    if (endIndex < startIndex)\n        throw IndexOutOfBoundsException("End index ($endIndex)
is less than start index ($startIndex).")\n    val sb = StringBuilder()\n    sb.appendRange(this, 0, startIndex)\n
sb.append(replacement)\n    sb.appendRange(this, endIndex, length)\n    return sb\n}\n\n/**\n * Replaces the part of
the string at the given range with the [replacement] char sequence.\n * @param startIndex the index of the first
character to be replaced.\n * @param endIndex the index of the first character after the replacement to keep in the
string.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(startIndex: Int, endIndex: Int,
replacement: CharSequence): String =\n    (this as CharSequence).replaceRange(startIndex, endIndex,
replacement).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the
given [range]\n * is replaced with the [replacement] char sequence.\n * @param range the index of the first
character to be replaced.\n * @param range the index of the first character after the replacement to keep in the
string.\n */\npublic fun CharSequence.replaceRange(range: IntRange, replacement:
CharSequence): CharSequence =\n    replaceRange(range.start, range.endInclusive + 1, replacement)\n\n/**\n *
Replace the part of string at the given [range] with the [replacement] string.\n * @param range the index of the
first character to be replaced.\n * @param range the index of the first character after the replacement to keep in the
string.\n * The end index of the [range] is included in the part to be replaced.\n */\n@kotlin.internal.InlineOnly\n
public inline fun String.replaceRange(range: IntRange, replacement: CharSequence): String =\n    (this as
CharSequence).replaceRange(range, replacement).toString()\n\n/**\n * Returns a char sequence with content of this
char sequence where its part at the given range is removed.\n * @param range the index of the first character to be
removed.\n * @param range the index of the first character after the removed part to keep in the string.\n * [endIndex] is not
included in the removed part.\n */\npublic fun CharSequence.removeRange(startIndex: Int, endIndex: Int):
CharSequence {\n    if (endIndex < startIndex)\n        throw IndexOutOfBoundsException("End index ($endIndex)
is less than start index ($startIndex).")\n    if (endIndex == startIndex)\n        return this.subSequence(0,
length)\n    val sb = StringBuilder(length - (endIndex - startIndex))\n    sb.appendRange(this, 0, startIndex)\n
sb.appendRange(this, endIndex, length)\n    return sb\n}\n\n/**\n * Removes the part of a string at a given range.\n *
@param range the index of the first character to be removed.\n * @param range the index of the first character after
the removed part to keep in the string.\n * [endIndex] is not included in the removed part.\n */\n@kotlin.internal.InlineOnly\n
public inline fun String.removeRange(startIndex: Int, endIndex: Int): String =\n    (this as
CharSequence).removeRange(startIndex, endIndex).toString()\n\n/**\n * Returns a char sequence with
content of this char sequence where its part at the given [range] is removed.\n * @param range the index of the
first character to be removed.\n * @param range the index of the first character after the removed part to keep in the
string.\n * The end index of the [range] is

```

included in the removed part.

```

public fun CharSequence.removeRange(range: IntRange): CharSequence =
    removeRange(range.start, range.endInclusive + 1)

```

Removes the part of a string at the given [range].

The end index of the [range] is included in the removed part.

```

@kotlin.internal.InlineOnly
public inline fun
String.removeRange(range: IntRange): String =
    (this as CharSequence).removeRange(range).toString()

```

If this char sequence starts with the given [prefix], returns a new char sequence with the prefix removed. Otherwise, returns a new char sequence with the same characters.

```

public fun
CharSequence.removePrefix(prefix: CharSequence): CharSequence {
    if (startsWith(prefix)) {
        return
            subSequence(prefix.length, length)
    }
    return subSequence(0, length)
}

```

If this string starts with the given [prefix], returns a copy of this string with the prefix removed. Otherwise, returns this string.

```

public fun
String.removePrefix(prefix: CharSequence): String {
    if (startsWith(prefix)) {
        return
            substring(prefix.length)
    }
    return this
}

```

If this char sequence ends with the given [suffix], returns a new char sequence with the suffix removed. Otherwise, returns a new char sequence with the same characters.

```

public fun
CharSequence.removeSuffix(suffix: CharSequence): CharSequence {
    if (endsWith(suffix)) {
        return subSequence(0, length - suffix.length)
    }
    return subSequence(0,
        length)
}

```

If this string ends with the given [suffix], returns a copy of this string with the suffix removed. Otherwise, returns this string.

```

public fun
String.removeSuffix(suffix: CharSequence): String {
    if (endsWith(suffix)) {
        return substring(0, length - suffix.length)
    }
    return this
}

```

When this char sequence starts with the given [prefix] and ends with the given [suffix], returns a new char sequence having both the given [prefix] and [suffix] removed. Otherwise returns a new char sequence with the same characters.

```

public fun
CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence): CharSequence {
    if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {
        return
            subSequence(prefix.length, length - suffix.length)
    }
    return subSequence(0, length)
}

```

Removes from a string both the given [prefix] and [suffix] if and only if it starts with the [prefix] and ends with the [suffix]. Otherwise returns this string unchanged.

```

public fun
String.removeSurrounding(prefix:
    CharSequence, suffix: CharSequence): String {
    if ((length >= prefix.length + suffix.length) &&
        startsWith(prefix) && endsWith(suffix)) {
        return substring(prefix.length, length - suffix.length)
    }
    return this
}

```

When this char sequence starts with and ends with the given [delimiter], returns a new char sequence having this [delimiter] removed both from the start and end. Otherwise returns a new char sequence with the same characters.

```

public fun
CharSequence.removeSurrounding(delimiter: CharSequence):
    CharSequence =
    removeSurrounding(delimiter, delimiter)

```

Removes the given [delimiter] string from both the start and the end of this string if and only if it starts with and ends with the [delimiter]. Otherwise returns this string unchanged.

```

public fun
String.removeSurrounding(delimiter: CharSequence): String =
    removeSurrounding(delimiter, delimiter)

```

Replace part of string before the first occurrence of given delimiter with the [replacement] string. If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

```

public fun
String.replaceBefore(delimiter: Char,
    replacement: String, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else
        replaceRange(0, index, replacement)
}

```

Replace part of string before the first occurrence of given delimiter with the [replacement] string. If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

```

public fun
String.replaceBefore(delimiter: String, replacement: String,
    missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else
        replaceRange(0, index, replacement)
}

```

Replace part of string after the first occurrence of given delimiter with the [replacement] string. If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

```

public fun
String.replaceAfter(delimiter: Char, replacement: String,
    missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else
        replaceRange(index + 1, length, replacement)
}

```

Replace part of string after the first occurrence of given delimiter with the [replacement] string. If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

```

public fun
String.replaceAfter(delimiter: String,

```

```

replacement: String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if
(index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/**\n *
Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n * If the string does
not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun
String.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n
val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(index +
delimiter.length, length, replacement)\n}\n\n/**\n * Replace part of string after the last occurrence of given
delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfterLast(delimiter:
Char, replacement: String, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n
return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/**\n *
Replace part of string before the last occurrence of given delimiter with the [replacement] string.\n * If the string
does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic
fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n
val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(0, index,
replacement)\n}\n\n/**\n * Replace part of string before the last occurrence of given delimiter with the
[replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults
to the original string.\n */\npublic fun String.replaceBeforeLast(delimiter: String, replacement: String,
missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1)
missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n// public fun String.replace(oldChar: Char,
newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific\n// public fun String.replace(oldValue: String,
newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific\n\n/**\n * Returns a new string obtained by
replacing each substring of this char sequence that matches the given regular expression\n * with the given
[replacement].\n * The [replacement] can consist of any combination of literal text and $-substitutions. To treat
the replacement string\n * literally escape it with the [kotlin.text.Regex.Companion.escapeReplacement] method.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, replacement: String): String
= regex.replace(this, replacement)\n\n/**\n * Returns a new string obtained by replacing each substring of this char
sequence that matches the given regular expression\n * with the result of the given function [transform] that takes
[MatchResult] and returns a string to be used as a\n * replacement for that match.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, noinline transform:
(MatchResult) -> CharSequence): String =\n    regex.replace(this, transform)\n\n/**\n * Replaces the first
occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.\n
*/\n * @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for
details.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replaceFirst(regex: Regex, replacement:
String): String = regex.replaceFirst(this, replacement)\n\n/**\n * Returns a copy of this string having its first
character replaced with the result of the specified [transform],\n * or the original string if it's empty.\n */\n * @param
transform function that takes the first character and returns the result of the transform applied to the character.\n
*/\n * @sample samples.text.Strings.replaceFirstChar\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@JvmName("replaceFirstCharWithChar")\n\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceFirstChar(transform: (Char) -> Char): String {\n
return if (isEmpty()) transform(this[0]) + substring(1) else this\n}\n\n/**\n * Returns a copy of this string
having its first character replaced with the result of the specified [transform],\n * or the original string if it's empty.\n
*/\n * @param transform function that takes the first character and returns the result of the transform applied to the
character.\n */\n * @sample samples.text.Strings.replaceFirstChar\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@JvmName("replaceFirstCharWithCharSequence")\n\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceFirstChar(transform: (Char) ->

```

```

CharSequence): String {\n    return if (isEmpty()) transform(this[0]).toString() + substring(1) else
this}\n}\n\n/**\n * Returns `true` if this char sequence matches the given regular expression.\n
*/\n@kotlin.internal.InlineOnly\npublic inline infix fun CharSequence.matches(regex: Regex): Boolean =
regex.matches(this)\n\n/**\n * Implementation of [regionMatches] for CharSequences.\n * Invoked when it's
already known that arguments are not Strings, so that no additional type checks are performed.\n */\ninternal fun
CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase:
Boolean): Boolean {\n    if ((otherOffset < 0) || (thisOffset < 0) || (thisOffset > this.length - length) || (otherOffset >
other.length - length)) {\n        return false\n    }\n    for (index in 0 until length) {\n        if (!this[thisOffset +
index].equals(other[otherOffset + index], ignoreCase))\n            return false\n    }\n    return true}\n}\n\n/**\n *
Returns `true` if this char sequence starts with the specified character.\n */\npublic fun
CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n    this.length > 0 &&
this[0].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence ends with the specified character.\n
*/\npublic fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n    this.length > 0 &&
this[lastIndex].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence starts with the specified
prefix.\n */\npublic fun CharSequence.startsWith(prefix: CharSequence, ignoreCase: Boolean = false): Boolean {\n
if (!ignoreCase && this is String && prefix is String)\n    return this.startsWith(prefix)\n else\n    return
regionMatchesImpl(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if a substring of this char
sequence starting at the specified offset [startIndex] starts with the specified prefix.\n */\npublic fun
CharSequence.startsWith(prefix: CharSequence, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n    if
(!ignoreCase && this is String && prefix is String)\n        return this.startsWith(prefix, startIndex)\n    else\n
return regionMatchesImpl(startIndex, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this char
sequence ends with the specified suffix.\n */\npublic fun CharSequence.endsWith(suffix: CharSequence,
ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase && this is String && suffix is String)\n        return
this.endsWith(suffix)\n    else\n        return regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length,
ignoreCase)\n}\n}\n\n// common prefix and suffix\n/**\n * Returns the longest string `prefix` such that this char
sequence and [other] char sequence both start with this prefix,\n * taking care not to split surrogate pairs.\n * If this
and [other] have no common prefix, returns the empty string.\n */\n * @param ignoreCase `true` to ignore character
case when matching a character. By default `false`.\n * @sample samples.text.Strings.commonPrefixWith\n
*/\npublic fun CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n
val shortestLength = minOf(this.length, other.length)\n    var i = 0\n    while (i < shortestLength &&
this[i].equals(other[i], ignoreCase = ignoreCase)) {\n        i++\n    }\n    if (this.hasSurrogatePairAt(i - 1) ||
other.hasSurrogatePairAt(i - 1)) {\n        i--\n    }\n    return subSequence(0, i).toString()\n}\n\n/**\n * Returns the
longest string `suffix` such that this char sequence and [other] char sequence both end with this suffix,\n * taking
care not to split surrogate pairs.\n * If this and [other] have no common suffix, returns the empty string.\n */\n
 * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @sample
samples.text.Strings.commonSuffixWith\n */\npublic fun CharSequence.commonSuffixWith(other: CharSequence,
ignoreCase: Boolean = false): String {\n    val thisLength = this.length\n    val otherLength = other.length\n    val
shortestLength = minOf(thisLength, otherLength)\n    var i = 0\n    while (i < shortestLength && this[thisLength -
i - 1].equals(other[otherLength - i - 1], ignoreCase = ignoreCase)) {\n        i++\n    }\n    if
(this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength - i - 1)) {\n        i--\n    }\n
return subSequence(thisLength - i, thisLength).toString()\n}\n}\n\n// indexOfAny()\n/**\n * Finds the index of the
first occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified [startIndex] and
optionally ignoring the case.\n */\n * @param ignoreCase `true` to ignore character case when matching a character.
By default `false`.\n * @return An index of the first occurrence of matched character from [chars] or -1 if none of
[chars] are found.\n */\npublic fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase:
Boolean = false): Int {\n    if (!ignoreCase && chars.size == 1 && this is String) {\n        val char = chars.single()\n
return nativeIndexOf(char, startIndex)\n    }\n    for (index in startIndex.coerceAtLeast(0)..lastIndex) {\n        val
charAtIndex = get(index)\n        if (chars.any { it.equals(charAtIndex, ignoreCase) })\n            return index\n    }\n
}

```



```

findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1\n\n/**\n * Finds the index of the last occurrence
of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally
ignoring the case.\n * \n * @param startIndex The index of character to start searching at. The search proceeds
backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching
a string. By default `false`.\n * @return An index of the last occurrence of matched string from [strings] or -1 if
none of [strings] are found.\n * \n * To avoid ambiguous results when strings in [strings] have characters in common,
this method proceeds from\n * the end toward the beginning of this string, and finds at each position the first
element in [strings]\n * that matches this string at that position.\n */\npublic fun
CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean =
false): Int =\n    findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1\n\n\n// indexOf\n\n/**\n * Returns
the index within this string of the first occurrence of the specified character, starting from the specified
[startIndex].\n * \n * @param ignoreCase `true` to ignore character case when matching a character. By default
`false`.\n * @return An index of the first occurrence of [char] or -1 if none is found.\n */\npublic fun
CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n    return if (ignoreCase
|| this !is String)\n        indexOfAny(charArrayOf(char), startIndex, ignoreCase)\n    else\n        nativeIndexOf(char,
startIndex)\n}\n\n\n/**\n * Returns the index within this char sequence of the first occurrence of the specified
[string],\n * starting from the specified [startIndex].\n * \n * @param ignoreCase `true` to ignore character case when
matching a string. By default `false`.\n * @return An index of the first occurrence of [string] or -1 if none is
found.\n * \n * @sample samples.text.Strings.indexOf\n */\npublic fun CharSequence.indexOf(string: String, startIndex:
Int = 0, ignoreCase: Boolean = false): Int {\n    return if (ignoreCase || this !is String)\n        indexOf(string,
startIndex, length, ignoreCase)\n    else\n        nativeIndexOf(string, startIndex)\n}\n\n\n/**\n * Returns the index
within this char sequence of the last occurrence of the specified character,\n * starting from the specified
[startIndex].\n * \n * @param startIndex The index of character to start searching at. The search proceeds backward
toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a
character. By default `false`.\n * @return An index of the last occurrence of [char] or -1 if none is found.\n
*/\npublic fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int
{\n    return if (ignoreCase || this !is String)\n        lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)\n
    else\n        nativeLastIndexOf(char, startIndex)\n}\n\n\n/**\n * Returns the index within this char sequence of the last
occurrence of the specified [string],\n * starting from the specified [startIndex].\n * \n * @param startIndex The
index of character to start searching at. The search proceeds backward toward the beginning of the string.\n *
@param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index
of the last occurrence of [string] or -1 if none is found.\n */\npublic fun CharSequence.lastIndexOf(string: String,
startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n    return if (ignoreCase || this !is String)\n
        indexOf(string, startIndex, 0, ignoreCase, last = true)\n    else\n        nativeLastIndexOf(string,
startIndex)\n}\n\n\n/**\n * Returns `true` if this char sequence contains the specified [other] sequence of characters as
a substring.\n * \n * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\n
*/\n\n\n@Suppress("INAPPLICABLE_OPERATOR_MODIFIER")\npublic operator fun
CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =\n    if (other is String)\n        indexOf(other, ignoreCase = ignoreCase) >= 0\n    else\n        indexOf(other, 0, length, ignoreCase) >=
0\n\n\n\n/**\n * Returns `true` if this char sequence contains the specified character [char].\n * \n * @param
ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n
*/\n\n\n@Suppress("INAPPLICABLE_OPERATOR_MODIFIER")\npublic operator fun CharSequence.contains(char:
Char, ignoreCase: Boolean = false): Boolean =\n    indexOf(char, ignoreCase = ignoreCase) >= 0\n\n\n\n/**\n * Returns
`true` if this char sequence contains at least one match of the specified regular expression [regex].\n
*/\n\n\n@kotlin.internal.InlineOnly\npublic inline operator fun CharSequence.contains(regex: Regex): Boolean =
regex.containsMatchIn(this)\n\n\n\n// rangesDelimitedBy\n\n\nprivate class DelimitedRangesSequence(\n    private
val input: CharSequence,\n    private val startIndex: Int,\n    private val limit: Int,\n    private val getNextMatch:
CharSequence.(currentIndex: Int) -> Pair<Int, Int>?>(): Sequence<IntRange> {\n    override fun iterator():

```

```

Iterator<IntRange> = object : Iterator<IntRange> {
    var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for
    continue
    var currentStartIndex: Int = startIndex.coerceIn(0, input.length)
    var nextSearchIndex: Int = currentStartIndex
    var nextItem: IntRange? = null
    var counter: Int = 0
    private fun calcNext() {
        if (nextSearchIndex < 0) {
            nextState = 0
            nextItem = null
        } else {
            if (limit > 0 && ++counter >= limit || nextSearchIndex > input.length) {
                nextItem = currentStartIndex..input.lastIndex
                nextSearchIndex = -1
            } else {
                val match = input.getNextMatch(nextSearchIndex)
                if (match == null) {
                    nextItem = currentStartIndex..input.lastIndex
                    nextSearchIndex = -1
                } else {
                    val (index, length) = match
                    nextItem = currentStartIndex until index
                    currentStartIndex = index + length
                    nextSearchIndex = currentStartIndex + if (length == 0) 1 else 0
                }
            }
            nextState = 1
        }
    }
    override fun next(): IntRange {
        if (nextState == -1) {
            calcNext()
            if (nextState == 0) {
                throw NoSuchElementException()
            }
            val result = nextItem as IntRange
            // Clean next to avoid keeping reference on yielded instance
            nextItem = null
            nextState = -1
            return result
        }
        override fun hasNext(): Boolean {
            if (nextState == -1) {
                calcNext()
                return nextState == 1
            }
        }
    }
}

```

* Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].
 * @param delimiters One or more characters to be used as delimiters.
 * @param startIndex The index to start searching delimiters from.
 * No range having its start value less than [startIndex] is returned.
 * [startIndex] is coerced to be non-negative and not greater than length of this string.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 * private fun CharSequence.rangesDelimitedBy(delimiters: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {
 requireNonNegativeLimit(limit)
 return DelimitedRangesSequence(this, startIndex, limit, { currentIndex -> indexOfAny(delimiters, currentIndex, ignoreCase = ignoreCase).let { if (it < 0) null else it to 1 } })
 }
 * Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].
 * @param delimiters One or more strings to be used as delimiters.
 * @param startIndex The index to start searching delimiters from.
 * No range having its start value less than [startIndex] is returned.
 * [startIndex] is coerced to be non-negative and not greater than length of this string.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from the beginning to the end of this string, and finds at each position the first element in [delimiters] that matches this string at that position.
 * private fun CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {
 requireNonNegativeLimit(limit)
 val delimitersList = delimiters.asList()
 return DelimitedRangesSequence(this, startIndex, limit, { currentIndex -> findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length } })
 }
 internal fun requireNonNegativeLimit(limit: Int) = require(limit >= 0) { "Limit must be non-negative, but was \$limit" }
 // split
 * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].
 * @param delimiters One or more strings to be used as delimiters.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from the beginning to the end of this string, and finds at each position the first element in [delimiters] that matches this string at that position.
 * public fun CharSequence.splitToSequence(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> = rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }
 * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].
 * @param delimiters One or more strings to be used as delimiters.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The

maximum number of substrings to return. Zero by default means no limit is set.

To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from the beginning to the end of this string, and matches at each position the first element in [delimiters] that is equal to a delimiter in this instance at that position.

```

public fun CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false,
limit: Int = 0): List<String> {
    if (delimiters.size == 1) {
        val delimiter = delimiters[0]
        if (!delimiter.isEmpty())
            return split(delimiter, ignoreCase, limit)
    }
    return
rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }
}

```

Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].

@param delimiters One or more characters to be used as delimiters.

@param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.

@param limit The maximum number of substrings to return.

```

public fun CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0):
Sequence<String> =
rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }
}

```

Splits this char sequence to a list of strings around occurrences of the specified [delimiters].

@param delimiters One or more characters to be used as delimiters.

@param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.

@param limit The maximum number of substrings to return.

```

public fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0):
List<String> {
    if (delimiters.size == 1) {
        return split(delimiters[0].toString(), ignoreCase, limit)
    }
    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }
}

```

Splits this char sequence to a list of strings around occurrences of the specified [delimiter]. This is specialized version of split which receives single non-empty delimiter and offers better performance.

@param delimiter String used as delimiter

@param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.

@param limit The maximum number of substrings to return.

```

private fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {
    requireNonNegativeLimit(limit)
    var currentOffset = 0
    var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    if (nextIndex == -1 || limit == 1)
        return listOf(this.toString())
    val isLimited = limit > 0
    val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)
    do {
        result.add(substring(currentOffset, nextIndex))
        currentOffset = nextIndex + delimiter.length // Do not search for next occurrence if we're reaching limit
        if (isLimited && result.size == limit - 1) break
        nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    } while (nextIndex != -1)
    result.add(substring(currentOffset, length))
    return result
}

```

Splits this char sequence to a list of strings around matches of the given regular expression.

@param limit Non-negative value specifying the maximum number of substrings to return. Zero by default means no limit is set.

```

@kotlin.internal.InlineOnly
public inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> =
regex.split(this, limit)
}

```

Splits this char sequence to a sequence of strings around matches of the given regular expression.

@param limit Non-negative value specifying the maximum number of substrings to return. Zero by default means no limit is set.

@sample samples.text.Strings.splitToSequence

```

@SinceKotlin("1.6")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun CharSequence.splitToSequence(regex: Regex, limit: Int = 0): Sequence<String> =
regex.splitToSequence(this, limit)
}

```

Splits this char sequence to a sequence of lines delimited by any of the following character sequences: CRLF, LF or CR.

The lines returned do not include terminating line separators.

```

public fun CharSequence.lineSequence(): Sequence<String> = splitToSequence("\\r\\n", "\\n", "\\r")
}

```

Splits this char sequence to a list of lines delimited by any of the following character sequences: CRLF, LF or CR.

The lines returned do not include terminating line separators.

```

public fun CharSequence.lines(): List<String> = lineSequence().toList()
}

```

Returns `true` if the contents of this char sequence are equal to the contents of the specified [other], i.e. both char sequences contain the same number of the same characters in the same order.

@sample samples.text.Strings.contentEquals

```

@SinceKotlin("1.5")
public expect infix fun CharSequence?.contentEquals(other: CharSequence?): Boolean
}

```

Returns `true` if the contents of this char sequence are equal to the contents of the specified

```

[other], optionally ignoring case difference.\n *\n * @param ignoreCase `true` to ignore character case when
comparing contents.\n *\n * @sample samples.text.Strings.contentEquals\n *\n@SinceKotlin("1.5")\n\npublic
expect fun CharSequence?.contentEquals(other: CharSequence?, ignoreCase: Boolean): Boolean\n\ninternal fun
CharSequence?.contentEqualsIgnoreCaseImpl(other: CharSequence?): Boolean {\n    if (this is String && other is
String) {\n        return this.equals(other, ignoreCase = true)\n    }\n    if (this === other) return true\n    if (this ==
null || other == null || this.length != other.length) return false\n    for (i in 0 until length) {\n        if
(!this[i].equals(other[i], ignoreCase = true)) {\n            return false\n        }\n    }\n    return true\n}\n\ninternal fun
CharSequence?.contentEqualsImpl(other: CharSequence?): Boolean {\n    if (this is String && other is String) {\n
        return this == other\n    }\n    if (this === other) return true\n    if (this == null || other == null || this.length !=
other.length) return false\n    for (i in 0 until length) {\n        if (this[i] != other[i]) {\n            return false\n
        }\n    }\n    return true\n}\n\n/**\n * Returns `true` if the content of this string is equal to the word `true`, `false` if it is
equal to `false`,\n * and throws an exception otherwise.\n *\n * There is also a lenient version of the function
available on nullable String, [String?.toBoolean].\n *\n * Note that this function is case-sensitive.\n *\n * @sample
samples.text.Strings.toBooleanStrict\n *\n@SinceKotlin("1.5")\n\npublic fun String.toBooleanStrict(): Boolean =
when (this) {\n    "true" -> true\n    "false" -> false\n    else -> throw IllegalArgumentException("The string
doesn't represent a boolean value: $this")\n}\n\n/**\n * Returns `true` if the content of this string is equal to the
word `true`, `false` if it is equal to `false`,\n * and `null` otherwise.\n *\n * There is also a lenient version of the
function available on nullable String, [String?.toBoolean].\n *\n * Note that this function is case-sensitive.\n *\n *
@sample samples.text.Strings.toBooleanStrictOrNull\n *\n@SinceKotlin("1.5")\n\npublic fun
String.toBooleanStrictOrNull(): Boolean? = when (this) {\n    "true" -> true\n    "false" -> false\n    else ->
null\n},"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n@n\n//
Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\n@JvmInline\n\npublic value class
UByteArray\n\n@PublishedApi\n\ninternal constructor(@PublishedApi internal val storage: ByteArray) :
Collection<UByte> {\n    /** Creates a new array of the specified [size], with all elements initialized to zero. *\n
    public constructor(size: Int) : this(ByteArray(size))\n    /**\n     * Returns the array element at the given [index].
This method can be called using the index operator.\n     *\n     * If the [index] is out of bounds of this array, throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     *\n     * public
operator fun get(index: Int): UByte = storage[index].toUByte()\n     /**\n     * Sets the element at the given [index]
to the given [value]. This method can be called using the index operator.\n     *\n     * If the [index] is out of bounds
of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is
unspecified.\n     *\n     * public operator fun set(index: Int, value: UByte) {\n         storage[index] = value.toByte()\n
    }\n    /** Returns the number of elements in the array. *\n    public override val size: Int get() = storage.size\n
}\n\n/** Creates an iterator over the elements of the array. *\n    public override operator fun iterator():
kotlin.collections.Iterator<UByte> = Iterator(storage)\n\n    @Suppress("DEPRECATION_ERROR")\n    private
class Iterator(private val array: ByteArray) : UByteIterator() {\n        private var index = 0\n        override fun
hasNext() = index < array.size\n        override fun nextUByte() = if (index < array.size) array[index++].toUByte()\n
        else throw NoSuchElementException(index.toString())\n    }\n\n    override fun contains(element: UByte): Boolean
{\n        // TODO: Eliminate this check after KT-30016 gets fixed.\n        // Currently JS BE does not generate
special bridge method for this method.\n        @Suppress("USELESS_CAST")\n        if ((element as Any?) !is
UByte) return false\n        return storage.contains(element.toByte())\n    }\n\n    override fun containsAll(elements:
Collection<UByte>): Boolean {\n        return (elements as Collection<*>).all { it is UByte &&
storage.contains(it.toByte()) }\n    }\n\n    override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n *
Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init]
function.\n *\n * The function [init] is called for each array element sequentially starting from the first one.\n *\n * It
should return the value for an array element given its index.\n
*\n@n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun

```

```

ByteArray(size: Int, init: (Int) -> UByte): UByteArray {
    return UByteArray(ByteArray(size) { index ->
        init(index).toByte()
    })
}
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ubyteArrayOf(vararg elements: UByte): UByteArray = elements
"/** Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.
Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.
Auto-generated file. DO NOT EDIT!
package
kotlin
nimport kotlin.jvm.*
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@JvmInline
public
value class UIntArray
@PublishedApi
internal constructor(@PublishedApi internal val storage: IntArray) :
Collection<UInt> {
    /** Creates a new array of the specified [size], with all elements initialized to zero.
    public constructor(size: Int) : this(IntArray(size))
    /** Returns the array element at the given [index].
    This method can be called using the index operator.
    If the [index] is out of bounds of this array, throws
    an [IndexOutOfBoundsException] except in Kotlin/JS
    where the behavior is unspecified.
    public
    operator fun get(index: Int): UInt = storage[index].toInt()
    /** Sets the element at the given [index] to
    the given [value]. This method can be called using the index operator.
    If the [index] is out of bounds of
    this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS
    where the behavior is unspecified.
    public
    operator fun set(index: Int, value: UInt) {
        storage[index] = value.toInt()
    }
    /** Returns
    the number of elements in the array.
    public override val size: Int get() = storage.size
    /** Creates an
    iterator over the elements of the array.
    public override operator fun iterator(): kotlin.collections.Iterator<UInt>
    = Iterator(storage)
    @Suppress("DEPRECATION_ERROR")
    private class Iterator(private val array:
    IntArray) : UIntIterator() {
        private var index = 0
        override fun hasNext() = index < array.size
        override fun nextUInt() = if (index < array.size) array[index++].toInt() else throw
        NoSuchElementException(index.toString())
    }
    override fun contains(element: UInt): Boolean {
        //
        TODO: Eliminate this check after KT-30016 gets fixed.
        // Currently JS BE does not generate special bridge
        method for this method.
        @Suppress("USELESS_CAST")
        if ((element as Any?) is UInt) return
        false
        return storage.contains(element.toInt())
    }
    override fun containsAll(elements:
    Collection<UInt>): Boolean {
        return (elements as Collection<*>).all { it is UInt &&
        storage.contains(it.toInt())
    }
    override fun isEmpty(): Boolean = this.storage.size == 0
}
/**
Creates a new array of the specified [size], where each element is calculated by calling the specified
[init]
function.
The function [init] is called for each array element sequentially starting from the first one.
It
should return the value for an array element given its index.
*/
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UIntArray(size: Int, init: (Int) -> UInt): UIntArray {
    return UIntArray(IntArray(size) { index ->
        init(index).toInt()
    })
}
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
uintArrayOf(vararg elements: UInt): UIntArray = elements
"/** Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.
Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.
Auto-generated file. DO NOT EDIT!
package
kotlin
nimport kotlin.jvm.*
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@JvmInline
public
value class ULongArray
@PublishedApi
internal constructor(@PublishedApi internal val storage: LongArray) :
Collection<ULong> {
    /** Creates a new array of the specified [size], with all elements initialized to zero.
    public constructor(size: Int) : this(LongArray(size))
    /** Returns the array element at the given [index].
    This method can be called using the index operator.
    If the [index] is out of bounds of this array, throws
    an [IndexOutOfBoundsException] except in Kotlin/JS
    where the behavior is unspecified.
    public
    operator fun get(index: Int): ULong = storage[index].toULong()
    /** Sets the element at the given
    [index] to the given [value]. This method can be called using the index operator.
    If the [index] is out of
    bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS
    where the behavior is
    unspecified.
    public
    operator fun set(index: Int, value: ULong) {
        storage[index] = value.toLong()
    }
    /** Returns the number of elements in the array.
    public override val size: Int get() = storage.size
}

```

```

/** Creates an iterator over the elements of the array. */
public override operator fun iterator():
kotlin.collections.Iterator<ULong> = Iterator(storage)
@Suppress("DEPRECATION_ERROR")
private class Iterator(private val array: LongArray) : ULongIterator() {
    private var index = 0
    override fun hasNext() = index < array.size
    override fun nextULong() = if (index < array.size) array[index++].toULong()
    else throw NoSuchElementException(index.toString())
}
override fun contains(element: ULong): Boolean {
    // TODO: Eliminate this check after KT-30016 gets fixed.
    // Currently JS BE does not generate special bridge method for this method.
    @Suppress("USELESS_CAST")
    if ((element as Any?) !is ULong) return false
    return storage.contains(element.toLong())
}
override fun containsAll(elements: Collection<ULong>): Boolean {
    return (elements as Collection<*>).all { it is ULong && storage.contains(it.toLong()) }
}
override fun isEmpty(): Boolean = this.storage.size == 0
}

* Creates a new array of the specified [size], where each element is calculated by calling the specified
* [init] function.
* The function [init] is called for each array element sequentially starting from the first one.
* It should return the value for an array element given its index.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray(size: Int, init: (Int) -> ULong): ULongArray {
    return ULongArray(LongArray(size) { index -> init(index).toLong() })
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ulongArrayOf(vararg elements: ULong): ULongArray = elements

/* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
*/
// Auto-generated file. DO NOT EDIT!
package kotlin
import kotlin.jvm.*
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@JvmInline
public value class UShortArray
@PublishedApi
internal constructor(@PublishedApi internal val storage: ShortArray) : Collection<UShort> {
    /** Creates a new array of the specified [size], with all elements initialized to zero. */
    public constructor(size: Int) : this(ShortArray(size))
    /** Returns the array element at the given [index]. This method can be called using the index operator.
    * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS
    * where the behavior is unspecified.
    */
    public operator fun get(index: Int): UShort = storage[index].toUShort()
    /** Sets the element at the given [index] to the given [value]. This method can be called using the index operator.
    * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS
    * where the behavior is unspecified.
    */
    public operator fun set(index: Int, value: UShort) {
        storage[index] = value.toShort()
    }
    /** Returns the number of elements in the array. */
    public override val size: Int get() = storage.size
}

/** Creates an iterator over the elements of the array. */
public override operator fun iterator():
kotlin.collections.Iterator<UShort> = Iterator(storage)
@Suppress("DEPRECATION_ERROR")
private class Iterator(private val array: ShortArray) : UShortIterator() {
    private var index = 0
    override fun hasNext() = index < array.size
    override fun nextUShort() = if (index < array.size) array[index++].toUShort()
    else throw NoSuchElementException(index.toString())
}
override fun contains(element: UShort): Boolean {
    // TODO: Eliminate this check after KT-30016 gets fixed.
    // Currently JS BE does not generate special bridge method for this method.
    @Suppress("USELESS_CAST")
    if ((element as Any?) !is UShort) return false
    return storage.contains(element.toShort())
}
override fun containsAll(elements: Collection<UShort>): Boolean {
    return (elements as Collection<*>).all { it is UShort && storage.contains(it.toShort()) }
}
override fun isEmpty(): Boolean = this.storage.size == 0
}

* Creates a new array of the specified [size], where each element is calculated by calling the specified
* [init] function.
* The function [init] is called for each array element sequentially starting from the first one.
* It should return the value for an array element given its index.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray(size: Int, init: (Int) -> UShort): UShortArray {
    return UShortArray(ShortArray(size) { index -> init(index).toShort() })
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

```

```

ushortArrayOf(vararg elements: UShort): UShortArray = elements\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UArraysKt")\n@file:kotlin.jvm.JvmPacka
geName("kotlin.collections.unsigned")\n\npackage kotlin.collections\n\n/\n\n// NOTE: THIS FILE IS AUTO-
GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the
size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior
is unspecified.\n *\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator fun UIntArray.component1(): UInt {\n    return get(0)\n}\n\n\n/**\n * Returns 1st *element* from the
array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n
* where the behavior is unspecified.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component1(): ULong {\n    return get(0)\n}\n\n\n/**\n * Returns 1st *element* from the array.\n * \n *
If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component1(): UByte {\n    return get(0)\n}\n\n\n/**\n * Returns 1st *element* from the array.\n * \n *
If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component1(): UShort {\n    return get(0)\n}\n\n\n/**\n * Returns 2nd *element* from the array.\n * \n *
If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component2(): UInt {\n    return get(1)\n}\n\n\n/**\n * Returns 2nd *element* from the array.\n * \n *
If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component2(): ULong {\n    return get(1)\n}\n\n\n/**\n * Returns 2nd *element* from the array.\n * \n *
If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component2(): UByte {\n    return get(1)\n}\n\n\n/**\n * Returns 2nd *element* from the array.\n * \n *
If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component2(): UShort {\n    return get(1)\n}\n\n\n/**\n * Returns 3rd *element* from the array.\n * \n *
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component3(): UInt {\n    return get(2)\n}\n\n\n/**\n * Returns 3rd *element* from the array.\n * \n *
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component3(): ULong {\n    return get(2)\n}\n\n\n/**\n * Returns 3rd *element* from the array.\n * \n *
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n

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behavior is unspecified.\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component3(): UByte {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n *\n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component3(): UShort {\n return get(2)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n *\n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component4(): UInt {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n *\n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior
is unspecified.\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator fun
ULongArray.component4(): ULong {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from
the array.\n * \n *\n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in
Kotlin/JS\n * where the behavior is unspecified.\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component4(): UByte {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n *\n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component4(): UShort {\n return get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *\n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component5(): UInt {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *\n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior
is unspecified.\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator fun
ULongArray.component5(): ULong {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from
the array.\n * \n *\n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in
Kotlin/JS\n * where the behavior is unspecified.\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component5(): UByte {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *\n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component5(): UShort {\n return get(4)\n}\n\n/**\n * Returns an element at the given [index] or
throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n *\n * @sample samples.collections.Collections.Elements.elementAt\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun
UIntArray.elementAt(index: Int):
UInt\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n *\n * @sample samples.collections.Collections.Elements.elementAt\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun
ULongArray.elementAt(index: Int):
ULong\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]
is out of bounds of this array.\n * \n *\n * @sample samples.collections.Collections.Elements.elementAt\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun
UByteArray.elementAt(index: Int):
UByte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]
is out of bounds of this array.\n * \n *\n * @sample samples.collections.Collections.Elements.elementAt\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int):
UShort\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the
[index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n    return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n    return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result
of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n    return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or
`null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.elementAtOrNull(index: Int): UInt? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrNull(index: Int): ULong? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrNull(index: Int): UByte? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrNull(index: Int): UShort? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n    return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns
the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n    return firstOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
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Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(): UInt {\n    return storage.first().toUInt()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.first(): ULong {\n    return storage.first().toULong()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(): UByte {\n    return storage.first().toUByte()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.first(): UShort {\n    return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching
the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n    for (element in this) if (predicate(element)) return
element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n    for (element in this) if (predicate(element)) return
element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(predicate: (UByte) -> Boolean): UByte {\n    for (element in this) if (predicate(element)) return
element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.first(predicate: (UShort) -> Boolean): UShort {\n    for (element in this) if (predicate(element)) return
element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.firstOrNull(): UInt? {\n    return
if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.firstOrNull(): ULong? {\n
return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.firstOrNull(): UByte? {\n
return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.firstOrNull(): UShort? {\n
return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null`
if element was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {\n    for (element in this) if (predicate(element)) return
element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element
was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {\n    for (element in this) if
(predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {\n    for (element in this) if (predicate(element))
return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {\n    for (element in this) if (predicate(element))
return element\n    return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n
*\n * @sample samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.getOrNull(index: Int): UInt? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given

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[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int):  

ULong? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at  

the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample  

samples.collections.Collections.Elements.getOrNull\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte?  

{\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the  

given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample  

samples.collections.Collections.Elements.getOrNull\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int):  

UShort? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of  

[element], or -1 if the array does not contain element.\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  

UIntArray.indexOf(element: UInt): Int {\n    return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first  

index of [element], or -1 if the array does not contain element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  

ULongArray.indexOf(element: ULong): Int {\n    return storage.indexOf(element.toLong())\n}\n\n/**\n * Returns  

first index of [element], or -1 if the array does not contain element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  

UByteArray.indexOf(element: UByte): Int {\n    return storage.indexOf(element.toByte())\n}\n\n/**\n * Returns  

first index of [element], or -1 if the array does not contain element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  

UShortArray.indexOf(element: UShort): Int {\n    return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns  

index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  

UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {\n    return storage.indexOfFirst { predicate(it.toUInt())  

}\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain  

such element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  

inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n    return storage.indexOfFirst {  

predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the  

array does not contain such element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  

UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n    return storage.indexOfFirst {  

predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the  

array does not contain such element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  

UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n    return storage.indexOfFirst {  

predicate(it.toUShort()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the  

array does not contain such element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  

UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n    return storage.indexOfLast { predicate(it.toUInt())  

}\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain  

such element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  

inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n    return storage.indexOfLast {  

predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the  

array does not contain such element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
```

```

UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {
    return storage.indexOfLast {
        predicate(it.toUByte())
    }
}
/**
 * Returns index of the last element matching the given [predicate], or -1 if the
 * array does not contain such element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {
    return storage.indexOfLast {
        predicate(it.toUShort())
    }
}
/**
 * Returns the last element.
 * @throws NoSuchElementException if the
 * array is empty.
 * @sample samples.collections.Collections.Elements.last
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.last(): UInt {
    return storage.last().toUInt()
}
/**
 * Returns the last element.
 * @throws
 * NoSuchElementException if the array is empty.
 * @sample samples.collections.Collections.Elements.last
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.last(): ULong {
    return storage.last().toULong()
}
/**
 * Returns the last element.
 * @throws
 * NoSuchElementException if the array is empty.
 * @sample
 * samples.collections.Collections.Elements.last
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.last(): UByte {
    return storage.last().toUByte()
}
/**
 * Returns the last element.
 * @throws
 * NoSuchElementException if the array is empty.
 * @sample
 * samples.collections.Collections.Elements.last
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.last(): UShort {
    return storage.last().toUShort()
}
/**
 * Returns the last element matching
 * the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 * @sample
 * samples.collections.Collections.Elements.last
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.last(predicate: (UInt) -> Boolean): UInt {
    for (index in this.indices.reversed()) {
        val element =
            this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains
    no element matching the predicate.")
}
/**
 * Returns the last element matching the given [predicate].
 * @throws
 * NoSuchElementException if no such element is found.
 * @sample
 * samples.collections.Collections.Elements.last
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.last(predicate: (ULong) -> Boolean): ULong {
    for (index in this.indices.reversed()) {
        val
        element = this[index]
        if (predicate(element)) return element
    }
    throw
    NoSuchElementException("Array contains no element matching the predicate.")
}
/**
 * Returns the last
 * element matching the given [predicate].
 * @throws
 * NoSuchElementException if no such element is found.
 * @sample
 * samples.collections.Collections.Elements.last
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.last(predicate: (UByte) -> Boolean): UByte {
    for (index in this.indices.reversed()) {
        val
        element = this[index]
        if (predicate(element)) return element
    }
    throw
    NoSuchElementException("Array contains no element matching the predicate.")
}
/**
 * Returns the last
 * element matching the given [predicate].
 * @throws
 * NoSuchElementException if no such element is found.
 * @sample
 * samples.collections.Collections.Elements.last
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.last(predicate: (UShort) -> Boolean): UShort {
    for (index in this.indices.reversed()) {
        val
        element = this[index]
        if (predicate(element)) return element
    }
    throw
    NoSuchElementException("Array contains no element matching the predicate.")
}
/**
 * Returns last index
 * of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.lastIndexOf(element: UInt): Int {
    return storage.lastIndexOf(element.toInt())
}
/**
 * Returns
 * last index of [element], or -1 if the array does not contain element.
 */

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastIndexOf(element: ULong): Int {\n    return storage.lastIndexOf(element.toLong())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastIndexOf(element: UByte): Int {\n    return storage.lastIndexOf(element.toByte())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastIndexOf(element: UShort): Int {\n    return storage.lastIndexOf(element.toShort())\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.lastOrNull(): UInt? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.lastOrNull(): UByte? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.lastOrNull(): UShort? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or
`null` if no such element was found.\n */\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n */\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {\n    for (index in this.indices.reversed()) {\n
val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n */\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n    for (index in this.indices.reversed()) {\n
val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n */\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n    for (index in this.indices.reversed()) {\n
val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a
random element from this array.\n */\n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.random(): UInt {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n */\n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.random(): ULong {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n */\n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.random(): UByte {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this

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array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.random(): UShort {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this
array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt
{\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random):
ULong {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.random(random: Random):
UByte {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.random(random: Random):
UShort {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.randomOrNull(): UInt? {\n    return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.randomOrNull(): ULong? {\n    return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UByteArray.randomOrNull(): UByte? {\n    return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.randomOrNull(): UShort? {\n    return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
public fun UIntArray.randomOrNull(random: Random): UInt? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
public fun ULongArray.randomOrNull(random: Random): ULong? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
public fun UByteArray.randomOrNull(random: Random): UByte? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
public fun UShortArray.randomOrNull(random: Random): UShort? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or
has more than one element.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.single(): UInt {\n    return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or throws an
exception if the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.single(): ULong {\n    return storage.single().toULong()\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.single(): UByte {\n    return storage.single().toUByte()\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.single(): UShort {\n    return storage.single().toUShort()\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.single(predicate: (UInt) -> Boolean): UInt {\n    var single: UInt? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UInt\n}\n\n/**\n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.single(predicate: (ULong) -> Boolean): ULong {\n    var single: ULong? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as ULong\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.single(predicate: (UByte) -> Boolean): UByte {\n    var single: UByte? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UByte\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.single(predicate: (UShort) -> Boolean): UShort {\n    var single: UShort? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UShort\n}\n\n/**\n * Returns single element, or `null` if
the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.singleOrNull(): UInt? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.singleOrNull(): ULong? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.singleOrNull(): UByte? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun

```



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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.dropLast(n: Int):
List<ULong> {\n    require(n >= 0) { "\"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.dropLast(n: Int): List<UByte>
{\n    require(n >= 0) { "\"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int):
List<UShort> {\n    require(n >= 0) { "\"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n        return take(index + 1)\n    }\n    }\n    return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    for (index in lastIndex downTo 0)
{\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    for (index in lastIndex downTo 0)
{\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    for (index in lastIndex downTo
0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    var yielding = false\n    val list =
ArrayList<UInt>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n
list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    var yielding = false\n    val list =
ArrayList<ULong>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item))
{\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    var yielding = false\n    val list =

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ArrayList<UByte>()\n for (item in this)\n     if (yielding)\n         list.add(item)\n     else if (!predicate(item))\n         list.add(item)\n     yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    var yielding = false\n    val list = ArrayList<UShort>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item))\n            list.add(item)\n        yielding = true\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n    return filterTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n    return filterTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n    return filterTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {\n    return filterTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {\n    return filterIndexedTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong> {\n    return filterIndexedTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {\n    return filterIndexedTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {\n    return filterIndexedTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @param [predicate] function that takes the index of an element and the element

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itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C
{\n  forEachIndexed { index, element ->\n    if (predicate(index, element)) destination.add(element)\n  }\n  return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int, ULong) ->
Boolean): C {\n  forEachIndexed { index, element ->\n    if (predicate(index, element))
destination.add(element)\n  }\n  return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) ->
Boolean): C {\n  forEachIndexed { index, element ->\n    if (predicate(index, element))
destination.add(element)\n  }\n  return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) ->
Boolean): C {\n  forEachIndexed { index, element ->\n    if (predicate(index, element))
destination.add(element)\n  }\n  return destination\n}\n\n/**\n * Returns a list containing all elements not
matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {\n  return filterNotTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n  return filterNotTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n  return filterNotTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n  return
filterNotTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements not matching the given [predicate]
to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {\n  for
(element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {\n
for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends
all elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {\n
for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {\n
for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends
all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {\n
for (element
in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C {\n
for (element
in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {\n
for (element
in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n
for (element
in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list
containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: IntRange):
List<UInt> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: IntRange):
List<ULong> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: IntRange):
List<UByte> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: IntRange):
List<UShort> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: Iterable<Int>):
List<UInt> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =

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ArrayList<UInt>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: Iterable<Int>):
List<ULong> {\n  val size = indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list =
ArrayList<ULong>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: Iterable<Int>):
List<UByte> {\n  val size = indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list =
ArrayList<UByte>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: Iterable<Int>):
List<UShort> {\n  val size = indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list =
ArrayList<UShort>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n *
Returns an array containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices:
Collection<Int>): UIntArray {\n  return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices:
Collection<Int>): ULongArray {\n  return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices:
Collection<Int>): UByteArray {\n  return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices:
Collection<Int>): UShortArray {\n  return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an
array containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: IntRange):
UIntArray {\n  return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at
indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.sliceArray(indices: IntRange): ULongArray {\n  return
ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the
specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.sliceArray(indices: IntRange): UByteArray {\n  return
UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the
specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.sliceArray(indices: IntRange): UShortArray {\n  return
UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns a list containing first [n] elements.\n
*\n * @throws IllegalArgumentException if [n] is negative.\n
*\n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.take(n: Int): List<UInt> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n  if (n == 0) return emptyList()\n  if (n >=
size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<UInt>(n)\n  for
(item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n
*\n * @throws IllegalArgumentException if [n] is negative.\n
*\n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.take(n: Int): List<ULong> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n  if (n == 0) return emptyList()\n  if (n >=
size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<ULong>(n)\n  for

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(item in this) {\n    list.add(item)\n    if (++count == n)\n        break\n    }\n    return list\n}\n\n**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.take(n: Int): List<UByte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UByte>(n)\n    for
(item in this) {\n    list.add(item)\n    if (++count == n)\n        break\n    }\n    return list\n}\n\n**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.take(n: Int): List<UShort> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UShort>(n)\n    for
(item in this) {\n    list.add(item)\n    if (++count == n)\n        break\n    }\n    return list\n}\n\n**\n * Returns
a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.takeLast(n: Int): List<UInt> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size =
size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<UInt>(n)\n
for (index in size - n until size)\n    list.add(this[index])\n    return list\n}\n\n**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.takeLast(n: Int): List<ULong>
{\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val
size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list =
ArrayList<ULong>(n)\n    for (index in size - n until size)\n    list.add(this[index])\n    return list\n}\n\n**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte>
{\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val
size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list =
ArrayList<UByte>(n)\n    for (index in size - n until size)\n    list.add(this[index])\n    return list\n}\n\n**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.takeLast(n: Int): List<UShort>
{\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val
size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list =
ArrayList<UShort>(n)\n    for (index in size - n until size)\n    list.add(this[index])\n    return list\n}\n\n**\n *
Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    for (index in lastIndex downTo 0) {\n
if (!predicate(this[index]))\n        return drop(index + 1)\n    }\n    }\n    return toList()\n}\n\n**\n * Returns a
list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    for (index in lastIndex downTo 0)
{\n    if (!predicate(this[index]))\n        return drop(index + 1)\n    }\n    }\n    return toList()\n}\n\n**\n *
Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample

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samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n  for (index in lastIndex downTo 0)
{\n    if (!predicate(this[index])) {\n      return drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n *
Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n  for (index in lastIndex downTo 0)
{\n    if (!predicate(this[index])) {\n      return drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n  val list = ArrayList<UInt>()\n  for (item in
this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a list
containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n  val list = ArrayList<ULong>()\n  for
(item in this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {\n  val list = ArrayList<UByte>()\n  for
(item in this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {\n  val list = ArrayList<UShort>()\n  for
(item in this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n *
Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reverse(): Unit {\n  storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reverse(): Unit {\n  storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(): Unit {\n  storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reverse(): Unit {\n  storage.reverse()\n}\n\n/**\n * Reverses elements of the array in the specified
range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end
of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n * \n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n  storage.reverse(fromIndex,
toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex
the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

ULongArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    storage.reverse(fromIndex, toIndex)
}

Reverses elements of the array in the specified range in-place.
@param fromIndex the start of the range (inclusive) to reverse.
@param toIndex the end of the range (exclusive) to reverse.
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    storage.reverse(fromIndex, toIndex)
}

Reverses elements of the array in the specified range in-place.
@param fromIndex the start of the range (inclusive) to reverse.
@param toIndex the end of the range (exclusive) to reverse.
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    storage.reverse(fromIndex, toIndex)
}

Returns a list with elements in reversed order.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UIntArray.reversed(): List<UInt> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

Returns a list with elements in reversed order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
ULongArray.reversed(): List<ULong> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

Returns a list with elements in reversed order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UByteArray.reversed(): List<UByte> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

Returns a list with elements in reversed order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UShortArray.reversed(): List<UShort> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

Returns an array with elements of this array in reversed order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.reversedArray(): UIntArray {
    return UIntArray(storage.reversedArray())
}

Returns an array with elements of this array in reversed order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.reversedArray(): ULongArray {
    return ULongArray(storage.reversedArray())
}

Returns an array with elements of this array in reversed order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.reversedArray(): UByteArray {
    return UByteArray(storage.reversedArray())
}

Returns an array with elements of this array in reversed order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.reversedArray(): UShortArray {
    return UShortArray(storage.reversedArray())
}

Randomly shuffles elements in this array in-place.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun
UIntArray.shuffle(): Unit {
    shuffle(Random)
}

Randomly shuffles elements in this array in-place.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun
ULongArray.shuffle(): Unit {
    shuffle(Random)
}

Randomly shuffles elements in this array in-place.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun
UByteArray.shuffle(): Unit {
    shuffle(Random)
}

Randomly shuffles elements in this array in-place.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun
UShortArray.shuffle(): Unit {
    shuffle(Random)
}

Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.
See:
https://en.wikipedia.org/wiki/Fisher%20%93Yates\_shuffle#The\_modern\_algorithm

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun
UIntArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] =

```

```

this[j]\n    this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(random: Random):
Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] =
this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(random: Random):
Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] =
this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(random: Random):
Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] =
this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their
natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements
in the array in-place descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(): Unit {\n    if
(size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending
according to their natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts
elements in the array in-place descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(): Unit {\n    if
(size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Returns a list of all elements sorted according to their
natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sorted():
List<UInt> {\n    return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted
according to their natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.sorted(): List<ULong> {\n    return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all
elements sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sorted(): List<UByte> {\n    return
copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural
sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sorted():
List<UShort> {\n    return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this
array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArray(): UIntArray {\n    if
(isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArray(): ULongArray {\n    if
(isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all
elements of this array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArray(): UByteArray {\n    if
(isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements
of this array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArray(): UShortArray {\n    if
(isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all
elements of this array sorted descending according to their natural sort order.\n

```



```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArrayDescending():
UIntArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns
an array with all elements of this array sorted descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArrayDescending():
ULongArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply { sortDescending() }\n}\n\n/**\n *
Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArrayDescending():
UByteArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply { sortDescending() }\n}\n\n/**\n *
Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArrayDescending():
UShortArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply { sortDescending() }\n}\n\n/**\n *
Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It
means that equal elements preserve their order relative to each other after sorting.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedDescending(): List<UInt>
{\n  return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending
according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.sortedDescending(): List<ULong> {\n  return copyOf().apply { sort() }.reversed()\n}\n\n/**\n *
Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It
means that equal elements preserve their order relative to each other after sorting.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedDescending():
List<UByte> {\n  return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted
descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve
their order relative to each other after sorting.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UShortArray.sortedDescending(): List<UShort> {\n  return copyOf().apply { sort() }.reversed()\n}\n\n/**\n *
Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation\n
* of the corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.asByteArray(): ByteArray {\n  return storage\n}\n\n/**\n * Returns an array of type [IntArray], which
is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this
array.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.asIntArray(): IntArray {\n  return storage\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.asList():
List<UInt>\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.asList():
List<ULong>\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.asList():
List<UByte>\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.asList():
List<UShort>\n\n/**\n * Returns an array of type [LongArray], which is a view of this array where each element is
a signed reinterpretation\n * of the corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.asLongArray(): LongArray {\n  return storage\n}\n\n/**\n * Returns an array of type [ShortArray],
which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this
array.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.asShortArray(): ShortArray {\n  return storage\n}\n\n/**\n * Returns an array of type [UByteArray],
which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of
this array.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline

```

```

fun ByteArray.asUByteArray(): UByteArray {
    return UByteArray(this)
}

/** Returns an array of type [UIntArray], which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
IntArray.asUIntArray(): UIntArray {
    return UIntArray(this)
}

/** Returns an array of type [ULongArray], which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
LongArray.asULongArray(): ULongArray {
    return ULongArray(this)
}

/** Returns an array of type [UShortArray], which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ShortArray.asUShortArray(): UShortArray {
    return UShortArray(this)
}

/** Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
@ExperimentalUnsignedTypes
public infix fun UIntArray.contentEquals(other: UIntArray): Boolean {
    return this.contentEquals(other)
}

/** Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
@ExperimentalUnsignedTypes
public infix fun ULongArray.contentEquals(other: ULongArray): Boolean {
    return this.contentEquals(other)
}

/** Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
@ExperimentalUnsignedTypes
public infix fun UByteArray.contentEquals(other: UByteArray): Boolean {
    return this.contentEquals(other)
}

/** Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
@ExperimentalUnsignedTypes
public infix fun UShortArray.contentEquals(other: UShortArray): Boolean {
    return this.contentEquals(other)
}

/** Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public infix fun UIntArray?.contentEquals(other: UIntArray?): Boolean {
    return this?.storage?.contentEquals(other?.storage)
}

/** Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public infix fun ULongArray?.contentEquals(other: ULongArray?): Boolean {
    return this?.storage?.contentEquals(other?.storage)
}

/** Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public infix fun UByteArray?.contentEquals(other: UByteArray?): Boolean {
    return this?.storage?.contentEquals(other?.storage)
}

/** Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public infix fun UShortArray?.contentEquals(other: UShortArray?): Boolean {
    return this?.storage?.contentEquals(other?.storage)
}

/** Returns a hash code based on the contents of this array as if it is [List].
 */
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation

```

```

warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =
\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentHashCode(): Int {\n    return
this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*\n*\n@\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =
\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentHashCode(): Int {\n    return
this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*\n*\n@\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =
\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentHashCode(): Int {\n    return
this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*\n*\n@\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =
\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentHashCode(): Int {\n    return
this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*\n*\n@\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentHashCode(): Int {\n
return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it
is [List].\n
*\n*\n@\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray?.contentHashCode(): Int {\n    return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash
code based on the contents of this array as if it is [List].\n
*\n*\n@\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray?.contentHashCode(): Int {\n
return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it
is [List].\n
*\n*\n@\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray?.contentHashCode(): Int {\n    return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n
*\n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n@\n@Deprecated(\"Use Kotlin compiler 1.4 to
avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =
\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentToString(): String {\n    return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n
*\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@\n@Deprecated(\"Use
Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =
\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentToString(): String {\n    return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n
*\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@\n@Deprecated(\"Use
Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =
\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentToString(): String {\n    return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n
*\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@\n@Deprecated(\"Use
Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =
\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentToString(): String {\n    return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n
*\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n*\n*\n@\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentToString(): String {\n
return this?.joinToString(\" \", \" \", \"[\", \"]\") ?: \"null\"\n}\n\n/**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n
*\n * @sample

```

```

samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n/**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n/**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n/**\n * Copies this array or its subrange into the
[destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even
specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy
to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param
startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive)
of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n *
\n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UIntArray {\n
storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n
return
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n *
It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy,
0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index
is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
ULongArray {\n
storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n
return
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n *
It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy,
0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index
is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UByteArray {\n
storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n
return
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n *

```

It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
@param destination the array to copy to.
@param destinationOffset the position in the [destination] array to copy to, 0 by default.
@param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
@param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
@throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
or when that index is out of the [destination] array indices range.
@return the [destination] array.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =\nsize): UShortArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return\ndestination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n *\n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOfOf\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.copyOfOf(): UIntArray {\n    return UIntArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array which is\n a copy of the original array.\n *\n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOfOf\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.copyOfOf(): ULongArray {\n    return ULongArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array\n which is a copy of the original array.\n *\n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOfOf\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.copyOfOf(): UByteArray {\n    return UByteArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array\n which is a copy of the original array.\n *\n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOfOf\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.copyOfOf(): UShortArray {\n    return UShortArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array\n which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at\n the end with zero values if necessary.\n * - If [newSize] is less than the size of the original array, the copy array\n is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the\n copy array are filled with zero values.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.copyOfOf(newSize: Int): UIntArray {\n    return UIntArray(storage.copyOfOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either\n truncated or padded at the end with zero values if necessary.\n * - If [newSize] is less than the size of the\n original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original\n array, the extra elements in the copy array are filled with zero values.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.copyOfOf(newSize: Int): ULongArray {\n    return ULongArray(storage.copyOfOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either\n truncated or padded at the end with zero values if necessary.\n * - If [newSize] is less than the size of the\n original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original\n array, the extra elements in the copy array are filled with zero values.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.copyOfOf(newSize: Int): UByteArray {\n    return UByteArray(storage.copyOfOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either\n truncated or padded at the end with zero values if necessary.\n * - If [newSize] is less than the size of the\n original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original\n array, the extra elements in the copy array are filled with zero values.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.copyOfOf(newSize: Int): UShortArray {\n    return UShortArray(storage.copyOfOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either\n truncated or padded at the end with zero values if necessary.\n * - If [newSize] is less than the size of the\n original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original\n array, the extra elements in the copy array are filled with zero values.
```

Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {\n    return
```

```
UIntArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the  
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if  
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws  
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n    return
```

```
ULongArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the  
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if  
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws  
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n    return
```

```
UByteArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the  
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if  
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws  
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n    return
```

```
UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the  
specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws  
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws  
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.fill(element: UInt, fromIndex:  
Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toInt(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array  
or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to  
fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws  
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this  
array.\n * @throws  
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element: ULong,  
fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toLong(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range  
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by  
default.\n * \n * @throws  
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than  
the size of this array.\n * @throws  
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte,  
fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range  
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
```

```

default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element: UShort,
fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toShort(), fromIndex, toIndex)\n}\n\n/**\n *
Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.indices: IntRange\n    get()
= storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.indices: IntRange\n    get() =
storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.indices: IntRange\n    get() =
storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.indices: IntRange\n    get() =
storage.indices\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.lastIndex: Int\n    get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.lastIndex: Int\n    get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.lastIndex: Int\n    get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.lastIndex: Int\n    get() =
storage.lastIndex\n\n/**\n * Returns an array containing all elements of the original array and then the given
[element].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
operator fun UIntArray.plus(element: UInt): UIntArray {\n    return UIntArray(storage +
element.toInt())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given
[element].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
operator fun ULongArray.plus(element: ULong): ULongArray {\n    return ULongArray(storage +
element.toLong())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given
[element].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
operator fun UByteArray.plus(element: UByte): UByteArray {\n    return UByteArray(storage +
element.toByte())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given
[element].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
operator fun UShortArray.plus(element: UShort): UShortArray {\n    return UShortArray(storage +
element.toShort())\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] collection.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator
fun UIntArray.plus(elements: Collection<UInt>): UIntArray {\n    var index = size\n    val result =
storage.copyOf(size + elements.size)\n    for (element in elements) result[index++] = element.toInt()\n    return
UIntArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] collection.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator
fun ULongArray.plus(elements: Collection<ULong>): ULongArray {\n    var index = size\n    val result =
storage.copyOf(size + elements.size)\n    for (element in elements) result[index++] = element.toLong()\n    return
ULongArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all
elements of the given [elements] collection.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {\n    var index = size\n    val result =
storage.copyOf(size + elements.size)\n    for (element in elements) result[index++] = element.toByte()\n    return
UByteArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] collection.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator
fun UShortArray.plus(elements: Collection<UShort>): UShortArray {\n    var index = size\n    val result =
storage.copyOf(size + elements.size)\n    for (element in elements) result[index++] = element.toShort()\n    return

```

```

UShortArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all
elements of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.plus(elements: UIntArray): UIntArray {\n    return UIntArray(storage + elements.storage)\n}\n\n/**\n *
Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.plus(elements: ULongArray): ULongArray {\n    return ULongArray(storage +
elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.plus(elements: UByteArray): UByteArray {\n    return UByteArray(storage +
elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.plus(elements: UShortArray): UShortArray {\n    return UShortArray(storage +
elements.storage)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.sort(): Unit {\n    if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n *
@sample samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(): Unit {\n    if (size > 1)
sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(): Unit {\n    if (size > 1)
sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(): Unit {\n    if (size > 1)
sortArray(this, 0, size)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(fromIndex: Int = 0, toIndex:
Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this, fromIndex,
toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this,
fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this,
fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array

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by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n

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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this,
fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are
sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive)
to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending(fromIndex: Int,
toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of
the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements
of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements
of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n/**\n * Returns an
array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.toByteArray(): ByteArray {\n    return storage.copyOf()\n}\n\n/**\n * Returns an array of type
[IntArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding
element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.toIntArray(): IntArray {\n    return storage.copyOf()\n}\n\n/**\n * Returns an array of type [LongArray],
which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.toLongArray(): LongArray {\n    return storage.copyOf()\n}\n\n/**\n * Returns an array of type
[ShortArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding
element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.toShortArray(): ShortArray {\n    return storage.copyOf()\n}\n\n/**\n * Returns a *typed* object array
containing all of the elements of this primitive array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.toTypedArray(): Array<UInt>
{\n    return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the

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elements of this primitive array.

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.toTypedArray(): Array<ULong> {\n    return Array(size) { index -> this[index] }\n}\n\n**\n *
Returns a *typed* object array containing all of the elements of this primitive array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.toTypedArray():
Array<UByte> {\n    return Array(size) { index -> this[index] }\n}\n\n**\n * Returns a *typed* object array
containing all of the elements of this primitive array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.toTypedArray():
Array<UShort> {\n    return Array(size) { index -> this[index] }\n}\n\n**\n * Returns an array of UByte containing
all of the elements of this generic array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Array<out UByte>.toUByteArray(): UByteArray {\n    return UByteArray(size) { index -> this[index] }\n}\n\n**\n
* Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned
reinterpretation\n * of the corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.toUByteArray(): UByteArray {\n    return UByteArray(this.copyOf())\n}\n\n**\n * Returns an array of
UInt containing all of the elements of this generic array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out UInt>.toUIntArray(): UIntArray
{\n    return UIntArray(size) { index -> this[index] }\n}\n\n**\n * Returns an array of type [UIntArray], which is a
copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.toUIntArray(): UIntArray {\n    return UIntArray(this.copyOf())\n}\n\n**\n * Returns an array of ULong
containing all of the elements of this generic array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out ULong>.toULongArray():
ULongArray {\n    return ULongArray(size) { index -> this[index] }\n}\n\n**\n * Returns an array of type
[ULongArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.toULongArray(): ULongArray {\n    return ULongArray(this.copyOf())\n}\n\n**\n * Returns an array
of UShort containing all of the elements of this generic array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out UShort>.toUShortArray():
UShortArray {\n    return UShortArray(size) { index -> this[index] }\n}\n\n**\n * Returns an array of type
[UShortArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.toUShortArray(): UShortArray {\n    return UShortArray(this.copyOf())\n}\n\n**\n * Returns a [Map]
where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to
each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UIntArray.associateWith(valueSelector: (UInt) -> V): Map<UInt, V> {\n    val result = LinkedHashMap<UInt,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ULongArray.associateWith(valueSelector: (ULong) -> V): Map<ULong, V> {\n    val result =
LinkedHashMap<ULong, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,

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valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.associateWith(valueSelector: (UByte) -> V): Map<UByte, V> {\n    val result =
LinkedHashMap<UByte, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UShortArray.associateWith(valueSelector: (UShort) -> V): Map<UShort, V> {\n    val result =
LinkedHashMap<UShort, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function
applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n
* @sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in UInt, in V>> UIntArray.associateWithTo(destination: M, valueSelector: (UInt) -> V): M {\n    for
(element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n *
where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If
any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in ULong, in V>> ULongArray.associateWithTo(destination: M, valueSelector: (ULong) -> V): M
{\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
@sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in UByte, in V>> UByteArray.associateWithTo(destination: M, valueSelector: (UByte) -> V): M {\n    for
(element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
@sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in UShort, in V>> UShortArray.associateWithTo(destination: M, valueSelector: (UShort) -> V): M
{\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being

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invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  

ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),  

transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being  

invoked on each element of original array.\n * \n * @sample  

samples.collections.Collections.Transformations.flatMap\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  

UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),  

transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being  

invoked on each element of original array.\n * \n * @sample  

samples.collections.Collections.Transformations.flatMap\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  

UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),  

transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being  

invoked on each element\n * and its index in the original array.\n * \n * @sample  

samples.collections.Collections.Transformations.flatMapIndexed\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  

UIntArray.flatMapIndexed(transform: (index: Int, UInt) -> Iterable<R>): List<R> {\n  return  

flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from  

results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *  

@sample samples.collections.Collections.Transformations.flatMapIndexed\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  

ULongArray.flatMapIndexed(transform: (index: Int, ULong) -> Iterable<R>): List<R> {\n  return  

flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from  

results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *  

@sample samples.collections.Collections.Transformations.flatMapIndexed\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  

UByteArray.flatMapIndexed(transform: (index: Int, UByte) -> Iterable<R>): List<R> {\n  return  

flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from  

results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *  

@sample samples.collections.Collections.Transformations.flatMapIndexed\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  

UShortArray.flatMapIndexed(transform: (index: Int, UShort) -> Iterable<R>): List<R> {\n  return  

flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of  

[transform] function being invoked on each element\n * and its index in the original array, to the given  

[destination].\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  

MutableCollection<in R>> UIntArray.flatMapIndexedTo(destination: C, transform: (index: Int, UInt) ->  

Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++, element)\n    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from results of  

[transform] function being invoked on each element\n * and its index in the original array, to the given  

[destination].\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> ULongArray.flatMapIndexedTo(destination: C, transform: (index: Int, ULong) ->  
Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++, element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of  
[transform] function being invoked on each element\n * and its index in the original array, to the given  
[destination].\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> UByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, UByte) ->  
Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++, element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of  
[transform] function being invoked on each element\n * and its index in the original array, to the given  
[destination].\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> UShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, UShort) ->  
Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++, element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of  
[transform] function being invoked on each element of original array, to the given [destination].\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n    for  
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return  
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each  
element of original array, to the given [destination].\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {\n    for  
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return  
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each  
element of original array, to the given [destination].\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {\n    for  
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return  
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each  
element of original array, to the given [destination].\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {\n    for  
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return  
destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]  
function\n * applied to each element and returns a map where each group key is associated with a list of  
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the  
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>  
UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {\n    return groupByTo(LinkedHashMap<K,  
MutableList<UInt>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the  
given [keySelector] function\n * applied to each element and returns a map where each group key is associated with  
a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced  
from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)\n}\n\n/**\n * Groups values returned by
the [valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of
corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements

```

of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n * \n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun <K, M : MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n * for (element in this) {\n * val key = keySelector(element)\n * val list = destination.getOrPut(key) { ArrayList<UInt>() }\n * list.add(element)\n * }\n * return destination\n * }\n * \n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n * \n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun <K, M : MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K): M {\n * for (element in this) {\n * val key = keySelector(element)\n * val list = destination.getOrPut(key) { ArrayList<ULong>() }\n * list.add(element)\n * }\n * return destination\n * }\n * \n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n * \n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun <K, M : MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K): M {\n * for (element in this) {\n * val key = keySelector(element)\n * val list = destination.getOrPut(key) { ArrayList<UByte>() }\n * list.add(element)\n * }\n * return destination\n * }\n * \n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n * \n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K): M {\n * for (element in this) {\n * val key = keySelector(element)\n * val list = destination.getOrPut(key) { ArrayList<UShort>() }\n * list.add(element)\n * }\n * return destination\n * }\n * \n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K, valueTransform: (UInt) -> V): M {\n * for (element in this) {\n * val key = keySelector(element)\n * val list = destination.getOrPut(key) { ArrayList<V>() }\n * list.add(valueTransform(element))\n * }\n * return destination\n * }\n * \n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K, valueTransform: (ULong) -> V): M {\n * for (element in this) {\n * val key = keySelector(element)\n * val list = destination.getOrPut(key) { ArrayList<V>() }\n * list.add(valueTransform(element))\n * }\n * return destination\n * }\n * \n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K,
valueTransform: (UByte) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list
= destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K,
valueTransform: (UShort) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list
= destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.map(transform: (UInt) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element in the original
array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.map(transform: (ULong) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),
transform)}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.map(transform: (UByte) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),
transform)}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.map(transform: (UShort) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),
transform)}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element and its index in the original array.\n * @param [transform] function that takes the index of an element and
the element itself\n * and returns the result of the transform applied to the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n    return
mapIndexedTo(ArrayList<R>(size), transform)}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {\n    return
mapIndexedTo(ArrayList<R>(size), transform)}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {\n    return
mapIndexedTo(ArrayList<R>(size), transform)}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {\n    return

```


mapIndexedTo(ArrayList<R>(size), transform)\n\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.withIndex():
```

```
Iterable<IndexedValue<UInt>> {\n    return IndexingIterable { iterator() }\n}\n\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.withIndex():
```

```
Iterable<IndexedValue<ULong>> {\n    return IndexingIterable { iterator() }\n}\n\n * Returns a lazy [Iterable]
```

that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByteArray.withIndex():
Iterable<IndexedValue<UByte>> {
    return IndexingIterable { iterator() }
}

```

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShortArray.withIndex():
Iterable<IndexedValue<UShort>> {
    return IndexingIterable { iterator() }
}

```

Returns `true` if all elements match the given [predicate].

```

@sample samples.collections.Collections.Aggregates.all
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.all(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return
false
    return true
}

```

Returns `true` if all elements match the given [predicate].

```

@sample samples.collections.Collections.Aggregates.all
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.all(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return
false
    return true
}

```

Returns `true` if all elements match the given [predicate].

```

@sample samples.collections.Collections.Aggregates.all
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.all(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return
false
    return true
}

```

Returns `true` if all elements match the given [predicate].

```

@sample samples.collections.Collections.Aggregates.all
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.all(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return
false
    return true
}

```

Returns `true` if array has at least one element.

```

@sample samples.collections.Collections.Aggregates.any
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.any(): Boolean {
    return storage.any()
}

```

Returns `true` if array has at least one element.

```

@sample samples.collections.Collections.Aggregates.any
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.any(): Boolean {
    return storage.any()
}

```

Returns `true` if array has at least one element.

```

@sample samples.collections.Collections.Aggregates.any
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.any(): Boolean {
    return storage.any()
}

```

Returns `true` if array has at least one element.

```

@sample samples.collections.Collections.Aggregates.any
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.any(): Boolean {
    return storage.any()
}

```

Returns `true` if at least one element matches the given [predicate].

```

@sample samples.collections.Collections.Aggregates.anyWithPredicate
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.any(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

```

Returns `true` if at least one element matches the given [predicate].

```

@sample samples.collections.Collections.Aggregates.anyWithPredicate
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.any(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return
true
    return false
}

```

Returns `true` if at least one element matches the given [predicate].

```

@sample samples.collections.Collections.Aggregates.anyWithPredicate
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.any(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return
true
    return false
}

```

Returns `true` if at least one element matches the given [predicate].

```

@sample samples.collections.Collections.Aggregates.anyWithPredicate
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

```

```

UShortArray.any(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

Returns the number of elements matching the given [predicate].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UIntArray.count(predicate: (UInt) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

Returns the number of elements matching the given [predicate].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ULongArray.count(predicate: (ULong) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

Returns the number of elements matching the given [predicate].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UByteArray.count(predicate: (UByte) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

Returns the number of elements matching the given [predicate].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UShortArray.count(predicate: (UShort) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

Accumulates value starting with [initial] value and applying [operation] from left to right
* to current accumulator value and each element.
* Returns the specified [initial] value if the array is empty.
* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R>
UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

Accumulates value starting with [initial] value and applying [operation] from left to right
* to current accumulator value and each element.
* Returns the specified [initial] value if the array is empty.
* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R>
ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

Accumulates value starting with [initial] value and applying [operation] from left to right
* to current accumulator value and each element.
* Returns the specified [initial] value if the array is empty.
* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R>
UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

Accumulates value starting with [initial] value and applying [operation] from left to right
* to current accumulator value and each element.
* Returns the specified [initial] value if the array is empty.
* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R>
UShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

Accumulates value starting with [initial] value and applying [operation] from left to right
* to current accumulator value and each element with its index in the original array.
* Returns the specified [initial] value if the array is empty.
* @param [operation] function that takes the index of an element, current accumulator value
* and the element itself, and calculates the next accumulator value.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R>
UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

Accumulates value starting with [initial] value and applying [operation] from left to right
* to current accumulator value and each element with its index in the original array.
* Returns the specified [initial] value if the array is empty.
* @param [operation] function that takes the index of an

```

```

element, current accumulator value and the element itself, and calculates the next accumulator value.
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator =
initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n  var index = lastIndex\n  var
accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {\n  var index = lastIndex\n  var
accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n  var index = lastIndex\n  var
accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the

```

specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n
* \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator
value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R> ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {\n  var index =
lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n**\n * Accumulates value starting with [initial]
value and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n
* \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the
next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {\n  var index =
lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n**\n * Accumulates value starting with [initial]
value and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n
* \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the
next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {\n  var index =
lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n**\n * Performs the given [action] on each
element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UIntArray.forEach(action: (UInt) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEach(action: (ULong) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEach(action: (UByte) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEach(action: (UShort) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n**\n *
Performs the given [action] on each element, providing sequential index with the element.\n
* @param [action]
function that takes the index of an element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {\n  var index = 0\n  for (item in this)
action(index++, item)\n}\n\n**\n * Performs the given [action] on each element, providing sequential index with
the element.\n
* @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

UByteArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {
var index = 0
for (item in this)
action(index++, item)}
* Performs the given [action] on each element, providing sequential index with the element.
* @param [action] function that takes the index of an element and the element itself
* and performs the action on the element.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {  
var index = 0  
for (item in this)  
action(index++, item)}  
* Performs the given [action] on each element, providing sequential index with the element.  
* @param [action] function that takes the index of an element and the element itself  
* and performs the action on the element.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {  
var index = 0  
for (item in this)  
action(index++, item)}  
@Deprecated("Use maxOrNull instead.")
```

```
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",  
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.max():
```

```
UInt? {  
return maxOrNull()\n}\n@Deprecated("Use maxOrNull instead.")
```

```
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",  
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.max():
```

```
ULong? {  
return maxOrNull()\n}\n@Deprecated("Use maxOrNull instead.")
```

```
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",  
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.max():
```

```
UByte? {  
return maxOrNull()\n}\n@Deprecated("Use maxOrNull instead.")
```

```
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",  
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.max():
```

```
UShort? {  
return maxOrNull()\n}\n@Deprecated("Use maxByOrNull instead.")
```

```
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =  
"1.5", hiddenSince =
```

```
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
<R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {  
return
```

```
maxByOrNull(selector)\n}\n@Deprecated("Use maxByOrNull instead.")
```

```
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =  
"1.5", hiddenSince =
```

```
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
<R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {  
return
```

```
maxByOrNull(selector)\n}\n@Deprecated("Use maxByOrNull instead.")
```

```
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =  
"1.5", hiddenSince =
```

```
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
<R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {  
return
```

```
maxByOrNull(selector)\n}\n@Deprecated("Use maxByOrNull instead.")
```

```
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =  
"1.5", hiddenSince =
```

```
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
<R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {  
return
```

```
maxByOrNull(selector)\n}\n*\n* Returns the first element yielding the largest value of the given function or  
`null` if there are no elements.  
* @sample samples.collections.Collections.Aggregates.maxByOrNull
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
```

```
Comparable<R>> UIntArray.maxByOrNull(selector: (UInt) -> R): UInt? {  
if (isEmpty()) return null  
var  
maxElem = this[0]  
var lastIndex = this.lastIndex  
if (lastIndex == 0) return maxElem  
var maxValue =
```

```
selector(maxElem)\n for (i in 1..lastIndex) {\n     val e = this[i]\n     val v = selector(e)\n     if (maxValue < v)\n     {\n         maxElem = e\n         maxValue = v\n     }\n }\n return maxElem\n}\n\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxByOrNull(selector: (ULong) -> R): ULong? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n        {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxByOrNull(selector: (UByte) -> R): UByte? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n        {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxByOrNull(selector: (UShort) -> R): UShort? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n        {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.maxOf(selector: (UInt) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.maxOf(selector: (ULong) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.maxOf(selector: (UByte) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
```

```

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOf(selector: (UShort) -> Double): Double {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOf(selector: (UInt) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue =
maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOf(selector: (ULong) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue =
maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.maxOf(selector: (UByte) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue =
maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
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UShortArray.maxOf(selector: (UShort) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var
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Comparable<R>> UIntArray.maxOf(selector: (UInt) -> R): R {\n    if (isEmpty()) throw
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Comparable<R>> ULongArray.maxOf(selector: (ULong) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
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Comparable<R>> UByteArray.maxOf(selector: (UByte) -> R): R {\n if (isEmpty()) throw
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Comparable<R>> UShortArray.maxOf(selector: (UShort) -> R): R {\n if (isEmpty()) throw
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UIntArray.maxOfOrNull(selector: (UInt) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n
}\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n *
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UIntArray.maxOfOrNull(selector: (UInt) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n
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    }
    return max_value
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@SinceKotlin("1.4")
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@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.maxOrNull(selector: (ULong) -> Float): Float? {
    if (isEmpty()) return null
    var max_value =
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Comparable<R>> UIntArray.maxOrNull(selector: (UInt) -> R): R? {
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    max_value = selector(this[0])
    for (i in 1..lastIndex) {
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Comparable<R>> ULongArray.maxOrNull(selector: (ULong) -> R): R? {
    if (isEmpty()) return null
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    max_value = selector(this[0])
    for (i in 1..lastIndex) {
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Comparable<R>> UShortArray.maxOrNull(selector: (UShort) -> R): R? {
    if (isEmpty()) return null
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    max_value = selector(this[0])
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UShortArray.maxOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n  if (isEmpty()) throw
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UIntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n  if (isEmpty()) return
null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
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UByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n  if (isEmpty())

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return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]\n * function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n    if (isEmpty())\n        return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxOrNull(): UInt? {\n    if (isEmpty())\n        return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxOrNull(): ULong? {\n    if (isEmpty())\n        return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxOrNull(): UByte? {\n    if (isEmpty())\n        return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxOrNull(): UShort? {\n    if (isEmpty())\n        return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\nUIntArray.maxWith(comparator: Comparator<in UInt>): UInt? {\n    return\n    maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\nULongArray.maxWith(comparator: Comparator<in ULong>): ULong? {\n    return\n    maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\nUByteArray.maxWith(comparator: Comparator<in UByte>): UByte? {\n    return\n    maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\nUShortArray.maxWith(comparator: Comparator<in UShort>): UShort? {\n    return\n    maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the\n * provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWithOrNull(comparator:\nComparator<in UInt>): UInt? {\n    if (isEmpty())\n        return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the\n * first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxWithOrNull(comparator:\nComparator<in ULong>): ULong? {\n    if (isEmpty())\n        return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the\n * first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxWithOrNull(comparator:

```

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Comparator<in UByte>: UByte? {\n  if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxWithOrNull(comparator: Comparator<in UShort>): UShort? {\n  if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n@Deprecated("Use minOrNull instead."),\nReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.min(): UInt? {\n  return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead."),\nReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.min(): ULong? {\n  return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead."),\nReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.min(): UByte? {\n  return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead."),\nReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.min(): UShort? {\n  return minOrNull()\n}\n\n@Deprecated("Use minByOrNull instead."),\nReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt? {\n  return minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead."),\nReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.minBy(selector: (ULong) -> R): ULong? {\n  return minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead."),\nReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.minBy(selector: (UByte) -> R): UByte? {\n  return minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead."),\nReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort? {\n  return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n */\n\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.minByOrNull(selector: (UInt) -> R): UInt? {\n  if (isEmpty()) return null\n  var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v) {\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n */\n\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :

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Comparable<R>> ULongArray.minByOrNull(selector: (ULong) -> R): ULong? {\n  if (isEmpty()) return null\n  var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v)\n    {\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.minByOrNull(selector: (UByte) -> R): UByte? {\n  if (isEmpty()) return null\n  var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v)\n    {\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.minByOrNull(selector: (UShort) -> R): UShort? {\n  if (isEmpty()) return null\n  var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v)\n    {\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.minOf(selector: (UInt) -> Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.minOf(selector: (ULong) -> Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.minOf(selector: (UByte) -> Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.minOf(selector: (UShort) -> Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]

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function is `NaN`, the returned result is `NaN`.n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOf(selector: (UInt) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.n * \n * @throws NoSuchElementException if the array is empty.\n
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.minOf(selector: (ULong) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
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UByteArray.minOf(selector: (UByte) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOf(selector: (UShort) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
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Comparable<R>> UIntArray.minOf(selector: (UInt) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
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Comparable<R>> ULongArray.minOf(selector: (ULong) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
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array.\n * \n * @throws NoSuchElementException if the array is empty.\n

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UIntArray.minOfOrNull(selector: (UInt) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
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```

selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n\nUByteArray.minOfOrNull(selector: (UByte) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n\nUShortArray.minOfOrNull(selector: (UShort) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\n\nUIntArray.minOfOrNull(selector: (UInt) -> R): R? {\n    if (isEmpty()) return null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values\n * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\n\nULongArray.minOfOrNull(selector: (ULong) -> R): R? {\n    if (isEmpty()) return null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values\n * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\n\nUByteArray.minOfOrNull(selector: (UByte) -> R): R? {\n    if (isEmpty()) return null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values\n * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\n\nUShortArray.minOfOrNull(selector: (UShort) -> R): R? {\n    if (isEmpty()) return null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the\n * provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\n\nUIntArray.minOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =\n        selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return\n    minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values

```

produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.minOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =\n        selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return\n    minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n * produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if\n * the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.minOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =\n        selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return\n    minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n * produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if\n * the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.minOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =\n        selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return\n    minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n * produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n    if (isEmpty()) return\n    null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n        (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n * function applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n    if (isEmpty())\n    return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n        (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n * function applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n    if (isEmpty())\n    return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n        (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n * function applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
```

```

UShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n  if (isEmpty())
return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minOrNull(): UInt? {\n  if
(isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (min > e) min =
e\n  }\n  return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minOrNull(): ULong? {\n  if
(isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (min > e) min =
e\n  }\n  return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minOrNull(): UByte? {\n  if
(isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (min > e) min =
e\n  }\n  return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minOrNull(): UShort? {\n  if
(isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (min > e) min =
e\n  }\n  return min\n}\n\n@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.minWith(comparator: Comparator<in UInt>): UInt? {\n  return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.minWith(comparator: Comparator<in ULong>): ULong? {\n  return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.minWith(comparator: Comparator<in UByte>): UByte? {\n  return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {\n  return
minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the
provided [comparator] or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWithOrNull(comparator:
Comparator<in UInt>): UInt? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWithOrNull(comparator:
Comparator<in ULong>): ULong? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the
first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWithOrNull(comparator:
Comparator<in UByte>): UByte? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the
first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWithOrNull(comparator:
Comparator<in UShort>): UShort? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns

```

```

`true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(predicate: (UInt) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(predicate: (ULong) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(predicate: (UByte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(predicate: (UShort) -> Boolean): Boolean {\n    for (element in this) if (predicate(element))
return false\n    return true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n * \n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.onEach(action: (UInt) -> Unit): UIntArray {\n    return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n * \n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.onEach(action: (ULong) -> Unit): ULongArray {\n    return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n * \n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.onEach(action: (UByte) -> Unit): UByteArray {\n    return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n * \n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.onEach(action: (UShort) -> Unit): UShortArray {\n    return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the
element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element
and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.onEachIndexed(action: (index: Int, UInt) -> Unit): UIntArray {\n    return apply {
forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): ULongArray {
    return apply {
        forEachIndexed(action) }
}

/**
 * Performs the given [action] on each element, providing sequential index
 * with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an
 * element and the element itself and performs the action on the element.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): UByteArray {
    return apply {
        forEachIndexed(action) }
}

/**
 * Performs the given [action] on each element, providing sequential index
 * with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an
 * element and the element itself and performs the action on the element.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.reduce(operation: (acc: UShort, UShort) -> UShort): UShort {
    return apply {
        forEachIndexed(action) }
}

/**
 * Accumulates value starting with the first element and applying [operation]
 * from left to right to current accumulator value and each element.
 * Throws an exception if this array is
 * empty. If the array can be empty in an expected way, please use [reduceOrNull] instead.
 * It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt {
    if (isEmpty())
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * Throws an exception if this array is empty.
 * If the array can be empty
 * in an expected way, please use [reduceOrNull] instead.
 * It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong {
    if (isEmpty())
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * Throws an exception if this array is empty.
 * If the array can be empty
 * in an expected way, please use [reduceOrNull] instead.
 * It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.reduce(operation: (acc: UByte, UByte) -> UByte): UByte {
    if (isEmpty())
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * Throws an exception if this array is empty.
 * If the array can be empty
 * in an expected way, please use [reduceOrNull] instead.
 * It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.reduce(operation: (acc: UShort, UShort) -> UShort): UShort {
    if (isEmpty())
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current
 */

```

accumulator value and each element with its index in the original array.
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduce

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.reduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt {\n    if (isEmpty())\n        throw  
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for (index in  
1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return  
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to  
right to current accumulator value and each element with its index in the original array.  
Throws an  
exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull]  
instead. It returns `null` when its receiver is empty.  
@param [operation] function that takes the index of an  
element, current accumulator value and the element itself, and calculates the next accumulator value.  
@sample samples.collections.Collections.Aggregates.reduce
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {\n    if (isEmpty())\n        throw  
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for  
(index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return  
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to  
right to current accumulator value and each element with its index in the original array.  
Throws an  
exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull]  
instead. It returns `null` when its receiver is empty.  
@param [operation] function that takes the index of an  
element, current accumulator value and the element itself, and calculates the next accumulator value.  
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {\n    if (isEmpty())\n        throw  
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for  
(index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return  
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to  
right to current accumulator value and each element with its index in the original array.  
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exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull]  
instead. It returns `null` when its receiver is empty.  
@param [operation] function that takes the index of an  
element, current accumulator value and the element itself, and calculates the next accumulator value.  
@sample samples.collections.Collections.Aggregates.reduce
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.reduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort {\n    if (isEmpty())\n        throw  
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for  
(index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return  
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to  
right to current accumulator value and each element with its index in the original array.  
Returns `null`  
if the array is empty.  
@param [operation] function that takes the index of an element, current accumulator  
value and the element itself, and calculates the next accumulator value.  
@sample  
samples.collections.Collections.Aggregates.reduceOrNull
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.reduceIndexedOrNull(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt? {\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(index,  
accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first
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element and applying [operation] from left to right
* to current accumulator value and each element with its index in the original array.
* Returns `null` if the array is empty.
* @param [operation] function that takes the index of an element, current accumulator value and the element itself,
* and calculates the next accumulator value.
* @sample samples.collections.Collections.Aggregates.reduceOrNull

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.reduceIndexedOrNull(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong? {\n    if  
(isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator =  
operation(index, accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting  
with the first element and applying [operation] from left to right  
* to current accumulator value and each element  
with its index in the original array.  
* Returns `null` if the array is empty.  
* @param [operation]  
function that takes the index of an element, current accumulator value and the element itself,  
* and calculates the  
next accumulator value.  
* @sample samples.collections.Collections.Aggregates.reduceOrNull
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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.reduceIndexedOrNull(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte? {\n    if  
(isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator =  
operation(index, accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting  
with the first element and applying [operation] from left to right  
* to current accumulator value and each element  
with its index in the original array.  
* Returns `null` if the array is empty.  
* @param [operation]  
function that takes the index of an element, current accumulator value and the element itself,  
* and calculates the  
next accumulator value.  
* @sample samples.collections.Collections.Aggregates.reduceOrNull
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.reduceIndexedOrNull(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort? {\n    if  
(isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator =  
operation(index, accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting  
with the first element and applying [operation] from left to right  
* to current accumulator value and each  
element.  
* Returns `null` if the array is empty.  
* @param [operation] function that takes current  
accumulator value and an element,  
* and calculates the next accumulator value.  
* @sample  
samples.collections.Collections.Aggregates.reduceOrNull
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt?  
{\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value  
starting with the first element and applying [operation] from left to right  
* to current accumulator value and each  
element.  
* Returns `null` if the array is empty.  
* @param [operation] function that takes current  
accumulator value and an element,  
* and calculates the next accumulator value.  
* @sample  
samples.collections.Collections.Aggregates.reduceOrNull
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.reduceOrNull(operation: (acc: ULong, ULong) ->  
ULong): ULong? {\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex)  
{\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates  
value starting with the first element and applying [operation] from left to right  
* to current accumulator value and  
each element.  
* Returns `null` if the array is empty.  
* @param [operation] function that takes current  
accumulator value and an element,  
* and calculates the next accumulator value.  
* @sample  
samples.collections.Collections.Aggregates.reduceOrNull
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.reduceOrNull(operation: (acc: UByte, UByte) ->  
UByte): UByte? {\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex)  
{\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates
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value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceOrNull(operation: (acc: UShort, UShort) -> UShort): UShort? {\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex)\n        accumulator = operation(accumulator, this[index])\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {\n    var index = lastIndex\n    if (index < 0)\n        throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n    var index = lastIndex\n    if (index < 0)\n        throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {\n    var index = lastIndex\n    if (index < 0)\n        throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {\n    var index = lastIndex\n    if (index < 0)\n        throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
```


left to each element with its index in the original array and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value. @sample samples.collections.Collections.Aggregates.reduceRight

```

* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun
UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt { \n    var index = lastIndex \n
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.") \n    var accumulator =
get(index--) \n    while (index >= 0) { \n        accumulator = operation(index, get(index), accumulator) \n        --index \n
    } \n    return accumulator \n } \n \n /** \n * Accumulates value starting with the last element and applying [operation]
from right to left to each element with its index in the original array and current accumulator value. \n * \n *
Throws an exception if this array is empty. If the array can be empty in an expected way, please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty. \n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator value, and calculates the
next accumulator value. \n * \n * @sample samples.collections.Collections.Aggregates.reduceRight
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun
ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong { \n    var index =
lastIndex \n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.") \n    var
accumulator = get(index--) \n    while (index >= 0) { \n        accumulator = operation(index, get(index),
accumulator) \n        --index \n    } \n    return accumulator \n } \n \n /** \n * Accumulates value starting with the last
element and applying [operation] from right to left to each element with its index in the original array and
current accumulator value. \n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty. \n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value, and calculates the next accumulator value. \n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun
UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte { \n    var index =
lastIndex \n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.") \n    var
accumulator = get(index--) \n    while (index >= 0) { \n        accumulator = operation(index, get(index),
accumulator) \n        --index \n    } \n    return accumulator \n } \n \n /** \n * Accumulates value starting with the last
element and applying [operation] from right to left to each element with its index in the original array and
current accumulator value. \n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty. \n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value, and calculates the next accumulator value. \n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun
UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort { \n    var index =
lastIndex \n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.") \n    var
accumulator = get(index--) \n    while (index >= 0) { \n        accumulator = operation(index, get(index),
accumulator) \n        --index \n    } \n    return accumulator \n } \n \n /** \n * Accumulates value starting with the last
element and applying [operation] from right to left to each element with its index in the original array and
current accumulator value. \n * \n * Returns `null` if the array is empty. \n * \n * @param [operation] function that
takes the index of an element, the element itself and current accumulator value, and calculates the next
accumulator value. \n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
* \n @SinceKotlin("1.4") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun
UIntArray.reduceRightIndexedOrNull(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt? { \n    var index =

```

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lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRightIndexedOrNull(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong? {\n  var
index = lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRightIndexedOrNull(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte? {\n  var
index = lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRightIndexedOrNull(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort? {\n  var
index = lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightOrNull(operation: (UInt, acc: UInt) -> UInt):
UInt? {\n  var index = lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index
>= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRightOrNull(operation: (ULong, acc: ULong) ->
ULong): ULong? {\n  var index = lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator

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value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightOrNull(operation: (UByte, acc: UByte) ->
UByte): UByte? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightOrNull(operation: (UShort, acc: UShort) ->
UShort): UShort? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.runningFold(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n
return result}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.runningFold(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n
return result}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.runningFold(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n
return result}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.runningFold(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n  if (isEmpty())
return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n
for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n  if
(isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator =
initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n  if
(isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator =
initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n  if
(isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator =
initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be

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mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n

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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.runningReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {\n  if (isEmpty()) return
emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<UInt>(size).apply { add(accumulator) }\n  for
(index in 1 until size) {\n    accumulator = operation(accumulator, this[index])\n    result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.runningReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {\n  if (isEmpty()) return
emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<ULong>(size).apply { add(accumulator) }\n
for (index in 1 until size) {\n    accumulator = operation(accumulator, this[index])\n    result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.runningReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {\n  if (isEmpty()) return
emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<UByte>(size).apply { add(accumulator) }\n
for (index in 1 until size) {\n    accumulator = operation(accumulator, this[index])\n    result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.runningReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {\n  if (isEmpty()) return
emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<UShort>(size).apply { add(accumulator) }\n
for (index in 1 until size) {\n    accumulator = operation(accumulator, this[index])\n    result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.runningReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {\n  if (isEmpty())
return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<UInt>(size).apply { add(accumulator)
}\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
  }\n  result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation

```

values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample

samples.collections.Collections.Aggregates.runningReduce\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.runningReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<ULong>(size).apply {  
        add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation  
values generated by applying [operation] from left to right\n * to each element, its index in the original array and  
current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to  
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.runningReduce\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.runningReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UByte>(size).apply {  
        add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation  
values generated by applying [operation] from left to right\n * to each element, its index in the original array and  
current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to  
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.runningReduce\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.runningReduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): List<UShort> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UShort>(size).apply {  
        add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation  
values generated by applying [operation] from left to right\n * to each element and current accumulator value that  
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current  
accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R):  
List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation  
values generated by applying [operation] from left to right\n * to each element and current accumulator value that  
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current  
accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R):
```

List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scan(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample\n
```

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samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scanIndexed(initial: R, operation: (index: Int, acc:
R, UShort) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf
instead.", ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sumBy(selector: (UInt) -> UInt): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sumBy(selector: (ULong) -> UInt): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.sumBy(selector: (UByte) -> UInt): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sumBy(selector: (UShort) -> UInt): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sumByDouble(selector: (UInt) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sumByDouble(selector: (ULong) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.sumByDouble(selector: (UByte) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sumByDouble(selector: (UShort) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector:

```



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(UInt) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:
(ULong) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:
(UByte) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:
(UShort) -> Double): Double {\n  var sum: Double = 0.toDouble()\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -
> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:
(ULong) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:
(UByte) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:
(UShort) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt)

```

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-> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/* Returns the sum of all values produced by [selector] function applied to each element in the array.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
kotlin.jvm.JvmName("sumOfLong")
@ExperimentalUnsignedTypes
kotlin.internal.InlineOnly
public inline fun ULongArray.sumOf(selector: (ULong) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/* Returns the sum of all values produced by [selector] function applied to each element in the array.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
kotlin.jvm.JvmName("sumOfLong")
@ExperimentalUnsignedTypes
kotlin.internal.InlineOnly
public inline fun UByteArray.sumOf(selector: (UByte) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/* Returns the sum of all values produced by [selector] function applied to each element in the array.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
kotlin.jvm.JvmName("sumOfLong")
@ExperimentalUnsignedTypes
kotlin.internal.InlineOnly
public inline fun UShortArray.sumOf(selector: (UShort) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/* Returns the sum of all values produced by [selector] function applied to each element in the array.

*/
@SinceKotlin("1.5")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalUnsignedTypes::class)
kotlin.internal.InlineOnly
public inline fun UIntArray.sumOf(selector: (UInt) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/* Returns the sum of all values produced by [selector] function applied to each element in the array.

*/
@SinceKotlin("1.5")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalUnsignedTypes::class)
kotlin.internal.InlineOnly
public inline fun ULongArray.sumOf(selector: (ULong) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/* Returns the sum of all values produced by [selector] function applied to each element in the array.

*/
@SinceKotlin("1.5")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalUnsignedTypes::class)
kotlin.internal.InlineOnly
public inline fun UByteArray.sumOf(selector: (UByte) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/* Returns the sum of all values produced by [selector] function applied to each element in the array.

*/
@SinceKotlin("1.5")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalUnsignedTypes::class)
kotlin.internal.InlineOnly
public inline fun UShortArray.sumOf(selector: (UShort) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/* Returns the sum of all values produced by [selector] function applied to each element in the array.

*/
@SinceKotlin("1.5")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
kotlin.jvm.JvmName("sumOfULong")
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalUnsignedTypes::class)
kotlin.internal.Inli

```

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neOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> ULong): ULong {\n  var sum: ULong =
0.toULong()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong\
")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> ULong): ULong {\n  var sum: ULong =
0.toULong()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong\
")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> ULong): ULong {\n  var sum: ULong =
0.toULong()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong\
")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> ULong): ULong {\n  var sum: ULong =
0.toULong()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns a
list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out
R>): List<Pair<UInt, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Array<out R>): List<Pair<ULong, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Array<out
R>): List<Pair<UByte, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Array<out R>): List<Pair<UShort, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {\n  val size = minOf(size,
other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n
}\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {\n  val size = minOf(size,

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```

other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterable\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Iterable<R>): List<Pair<UInt, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterable\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other: Iterable<R>): List<Pair<ULong, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterable\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Iterable<R>): List<Pair<UByte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n    val arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n    val arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the

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shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n    val arraySize = size\n    val list
= ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n    val arraySize = size\n    val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other)
{\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray):
List<Pair<UInt, UInt>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray):
List<Pair<ULong, ULong>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray):
List<Pair<UByte, UByte>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray):
List<Pair<UShort, UShort>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built
from the elements of `this` array and the [other] array with the same index\n * using the provided [transform]
function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {\n    val size = minOf(size,

```

```

other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array\n with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned\n list has length of the\n shortest array.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>\nUShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {\n    val size = minOf(size,\n other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns the sum of all elements in the array.\n\n*/\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedT\n ypes::class)\npublic fun Array<out UInt>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum\n += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n\n*/\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned\n Types::class)\npublic fun Array<out ULong>.sum(): ULong {\n    var sum: ULong = 0uL\n    for (element in this)\n {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n\n*/\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned\n Types::class)\npublic fun Array<out UByte>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum\n += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n\n*/\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned\n Types::class)\npublic fun Array<out UShort>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum\n += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the\n array.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UIntArray.sum(): UInt {\n    return storage.sum().toUInt()\n}\n\n/**\n * Returns the sum of all elements in the\n array.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n ULongArray.sum(): ULong {\n    return storage.sum().toULong()\n}\n\n/**\n * Returns the sum of all elements in\n the array.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline\n fun UByteArray.sum(): UInt {\n    return sumOf { it.toUInt() }\n}\n\n/**\n * Returns the sum of all elements in the\n array.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UShortArray.sum(): UInt {\n    return sumOf { it.toUInt() }\n}\n\n"/\n\n * Copyright 2010-2021 JetBrains s.r.o. and\n Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that\n can be found in the license/LICENSE.txt file.\n\n*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UCollectionsKt")\n\npackage\n kotlin.collections\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:\n https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport\n kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an array of UByte containing all of the\n elements of this collection.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\n Collection<UByte>.toUByteArray(): UByteArray {\n    val result = UByteArray(size)\n    var index = 0\n    for\n (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of UInt containing\n all of the elements of this collection.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\n Collection<UInt>.toUIntArray(): UIntArray {\n    val result = UIntArray(size)\n    var index = 0\n    for (element in\n this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of ULong containing all of the\n elements of this collection.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\n Collection<ULong>.toULongArray(): ULongArray {\n    val result = ULongArray(size)\n    var index = 0\n    for\n (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of UShort\n containing all of the elements of this collection.\n\n*/\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Collection<UShort>.toUShortArray():\n UShortArray {\n    val result = UShortArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] =\n element\n    return result\n}\n\n/**\n * Returns the sum of all elements in the collection.\n\n*/

```

```

*\n@kotlin.jvm.JvmName("\sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Iterable<UInt>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/*\n * Returns the sum of all elements in the collection.\n
*\n@kotlin.jvm.JvmName("\sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Iterable<ULong>.sum(): ULong {\n    var sum: ULong = 0uL\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/*\n * Returns the sum of all elements in the collection.\n
*\n@kotlin.jvm.JvmName("\sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Iterable<UByte>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/*\n * Returns the sum of all elements in the collection.\n
*\n@kotlin.jvm.JvmName("\sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Iterable<UShort>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n"/\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UComparisonsKt")\n\npackage kotlin.comparisons\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/*\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UInt, b: UInt): UInt {\n    return if (a >= b) a else b\n}\n\n/*\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: ULong, b: ULong): ULong {\n    return if (a >= b) a else b\n}\n\n/*\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UByte, b: UByte): UByte {\n    return if (a >= b) a else b\n}\n\n/*\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UShort, b: UShort): UShort {\n    return if (a >= b) a else b\n}\n\n/*\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UInt, b: UInt, c: UInt): UInt {\n    return maxOf(a, maxOf(b, c))\n}\n\n/*\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: ULong, b: ULong, c: ULong): ULong {\n    return maxOf(a, maxOf(b, c))\n}\n\n/*\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {\n    return maxOf(a, maxOf(b, c))\n}\n\n/*\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {\n    return maxOf(a, maxOf(b, c))\n}\n\n/*\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UInt, vararg other: UInt): UInt {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/*\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: ULong, vararg other: ULong): ULong {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/*\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UByte, vararg other: UByte): UByte {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/*\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UShort, vararg other: UShort): UShort {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/*\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UInt, b:

```

```

UInt): UInt {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: ULong,
b: ULong): ULong {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UByte,
b: UByte): UByte {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UShort,
b: UShort): UShort {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun minOf(a: UInt, b: UInt, c: UInt): UInt {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns
the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n *
Returns the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun minOf(a: UByte, b: UByte, c: UByte): UByte {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n *
Returns the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n *
Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
minOf(a: UInt, vararg other: UInt): UInt {\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return
min\n}\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: ULong, vararg other: ULong):
ULong {\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller
of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UByte,
vararg other: UByte): UByte {\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n *
Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
minOf(a: UShort, vararg other: UShort): UShort {\n    var min = a\n    for (e in other) min = minOf(min, e)\n
return min\n}\n\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("URangesKt")\n\npackage
kotlin.ranges\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns a
random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun UIntRange.random(): UInt {\n    return random(Random)\n}\n\n/**\n * Returns a random element
from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun ULongRange.random(): ULong {\n    return random(Random)\n}\n\n/**\n * Returns a random
element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if
this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun UIntRange.random(random: Random): UInt {\n    try {\n        return random.nextUInt(this)\n    } catch(e:
IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a
random element from this range using the specified source of randomness.\n * \n * @throws
IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULongRange.random(random: Random): ULong {\n    try {\n        return random.nextULong(this)\n    } catch(e:
IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a
random element from this range, or `null` if this range is empty.\n

```



```

*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)^@kotlin.internal.InlineOnly^public inline fun UIntRange.randomOrNull():
UInt? {^n   return randomOrNull(Random)^n}^n/^n/**^n * Returns a random element from this range, or `null` if this
range is empty.^n *^@SinceKotlin("1.5")^@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)^@kotlin.internal.InlineOnly^public inline fun ULongRange.randomOrNull():
ULong? {^n   return randomOrNull(Random)^n}^n/^n/**^n * Returns a random element from this range using the
specified source of randomness, or `null` if this range is empty.^n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)^npublic fun UIntRange.randomOrNull(random: Random): UInt? {^n   if
(isEmpty())^n   return null^n   return random.nextUInt(this)^n}^n/^n/**^n * Returns a random element from this
range using the specified source of randomness, or `null` if this range is empty.^n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)^npublic fun ULongRange.randomOrNull(random: Random): ULong? {^n   if
(isEmpty())^n   return null^n   return random.nextULong(this)^n}^n/^n/**^n * Returns `true` if this range contains
the specified [element].^n * ^n * Always returns `false` if the [element] is `null`.^n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class)^n@kotlin.internal.InlineOnly^
npublic inline operator fun UIntRange.contains(element: UInt?): Boolean {^n   return element != null &&
contains(element)^n}^n/^n/**^n * Returns `true` if this range contains the specified [element].^n * ^n * Always returns
`false` if the [element] is `null`.^n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class)^n@kotlin.internal.InlineOnly^
npublic inline operator fun ULongRange.contains(element: ULong?): Boolean {^n   return element != null &&
contains(element)^n}^n/^n/**^n * Checks if the specified [value] belongs to this range.^n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class)^npublic operator fun
UIntRange.contains(value: UByte): Boolean {^n   return contains(value.toUInt())^n}^n/^n/**^n * Checks if the
specified [value] belongs to this range.^n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class)^npublic operator fun
ULongRange.contains(value: UByte): Boolean {^n   return contains(value.toULong())^n}^n/^n/**^n * Checks if the
specified [value] belongs to this range.^n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class)^npublic operator fun
ULongRange.contains(value: UInt): Boolean {^n   return contains(value.toULong())^n}^n/^n/**^n * Checks if the
specified [value] belongs to this range.^n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class)^npublic operator fun
UIntRange.contains(value: ULong): Boolean {^n   return (value shr UInt.SIZE_BITS) == 0uL &&
contains(value.toUInt())^n}^n/^n/**^n * Checks if the specified [value] belongs to this range.^n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class)^npublic operator fun
UIntRange.contains(value: UShort): Boolean {^n   return contains(value.toUInt())^n}^n/^n/**^n * Checks if the
specified [value] belongs to this range.^n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class)^npublic operator fun
ULongRange.contains(value: UShort): Boolean {^n   return contains(value.toULong())^n}^n/^n/**^n * Returns a
progression from this value down to the specified [to] value with the step -1.^n * ^n * The [to] value should be less
than or equal to `this` value.^n * If the [to] value is greater than `this` value the returned progression is empty.^n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class)^npublic infix fun
UByte.downTo(to: UByte): UIntProgression {^n   return UIntProgression.fromClosedRange(this.toUInt(),
to.toUInt(), -1)^n}^n/^n/**^n * Returns a progression from this value down to the specified [to] value with the step -
1.^n * ^n * The [to] value should be less than or equal to `this` value.^n * If the [to] value is greater than `this` value
the returned progression is empty.^n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class)^npublic infix fun
UInt.downTo(to: UInt): UIntProgression {^n   return UIntProgression.fromClosedRange(this, to, -1)^n}^n/^n/**^n *

```

Returns a progression from this value down to the specified [to] value with the step -1. The [to] value should be less than or equal to this value. If the [to] value is greater than this value the returned progression is empty.

```

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)
public infix fun ULong.downTo(to: ULong): ULongProgression {
    return ULongProgression.fromClosedRange(this, to, -1L)
}

```

Returns a progression from this value down to the specified [to] value with the step -1. The [to] value should be less than or equal to this value. If the [to] value is greater than this value the returned progression is empty.

```

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)
public infix fun UShort.downTo(to: UShort): UIntProgression {
    return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)
}

```

Returns a progression that goes over the same range in the opposite direction with the same step.

```

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)
public fun UIntProgression.reversed(): UIntProgression {
    return UIntProgression.fromClosedRange(last, first, -step)
}

```

Returns a progression that goes over the same range in the opposite direction with the same step.

```

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)
public fun ULongProgression.reversed(): ULongProgression {
    return ULongProgression.fromClosedRange(last, first, -step)
}

```

Returns a progression that goes over the same range with the given step.

```

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)
public infix fun UIntProgression.step(step: Int): UIntProgression {
    checkStepIsPositive(step > 0, step)
    return UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}

```

Returns a progression that goes over the same range with the given step.

```

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)
public infix fun ULongProgression.step(step: Long): ULongProgression {
    checkStepIsPositive(step > 0, step)
    return ULongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}

```

Returns a range from this value up to but excluding the specified [to] value. If the [to] value is less than or equal to this value, then the returned range is empty.

```

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)
public infix fun UByte.until(to: UByte): UIntRange {
    if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY
    return this.toUInt() .. (to - 1u).toUInt()
}

```

Returns a range from this value up to but excluding the specified [to] value. If the [to] value is less than or equal to this value, then the returned range is empty.

```

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)
public infix fun UInt.until(to: UInt): UIntRange {
    if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY
    return this .. (to - 1u).toUInt()
}

```

Returns a range from this value up to but excluding the specified [to] value. If the [to] value is less than or equal to this value, then the returned range is empty.

```

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)
public infix fun ULong.until(to: ULong): ULongRange {
    if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY
    return this .. (to - 1u).toULong()
}

```

Returns a range from this value up to but excluding the specified [to] value. If the [to] value is less than or equal to this value, then the returned range is empty.

```

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)
public infix fun UShort.until(to: UShort): UIntRange {
    if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY
    return this.toUInt() .. (to - 1u).toUInt()
}

```

Ensures that this value is not less than the specified [minimumValue]. @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned

```

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)
public fun UInt.coerceAtLeast(minimumValue: UInt): UInt {
    return if (this < minimumValue) minimumValue else this
}

```

Ensures that this value is not less than the specified [minimumValue]. @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned

```

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)
public fun

```

```

ULong.coerceAtLeast(minimumValue: ULong): ULong {\n  return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceAtLeast(minimumValue: UByte): UByte {\n  return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceAtLeast(minimumValue: UShort): UShort {\n  return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceAtMost(maximumValue: UInt): UInt {\n  return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceAtMost(maximumValue: ULong): ULong {\n  return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceAtMost(maximumValue: UByte): UByte {\n  return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceAtMost(maximumValue: UShort): UShort {\n  return if (this > maximumValue) maximumValue
else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n
* @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {\n  if (minimumValue > maximumValue)
throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n  if (this < minimumValue) return minimumValue\n  if (this > maximumValue)
return maximumValue\n  return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {\n  if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.")\n  if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n  return this\n}\n\n/**\n * Ensures that this value lies in the

```

```

specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or
[minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {\n if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the
specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or
[minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {\n if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the
specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than
`range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceIn(range: ClosedRange<UInt>): UInt {\n if (range is ClosedFloatingPointRange) {\n return
this.coerceIn<UInt>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to
an empty range: $range.")\n return when {\n this < range.start -> range.start\n this > range.endInclusive -
-> range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or
`range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceIn(range: ClosedRange<ULong>): ULong {\n if (range is ClosedFloatingPointRange) {\n return
this.coerceIn<ULong>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value
to an empty range: $range.")\n return when {\n this < range.start -> range.start\n this >
range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n"/*\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("USequencesKt")\n\npackage
kotlin.sequences\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the
sum of all elements in the sequence.\n * \n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedT
ypes::class)\npublic fun Sequence<UInt>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum
+= element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n * \n * The
operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Sequence<ULong>.sum(): ULong {\n var sum: ULong = 0uL\n for (element in this)
{\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n * \n *
The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Sequence<UByte>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n

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sum += element\n } \n return sum\n} \n\n/**\n * Returns the sum of all elements in the sequence.\n * \n * The
operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("\sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Sequence<UShort>.sum(): UInt { \n var sum: UInt = 0u\n for (element in this) { \n
sum += element\n } \n return sum\n} \n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n * \n\npackage kotlin\n\npublic expect open class Error : Throwable { \n
constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n
constructor(cause: Throwable?)\n} \n\npublic expect open class Exception : Throwable { \n constructor()\n
constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause:
Throwable?)\n} \n\npublic expect open class RuntimeException : Exception { \n constructor()\n
constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause:
Throwable?)\n} \n\npublic expect open class IllegalArgumentException : RuntimeException { \n constructor()\n
constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause:
Throwable?)\n} \n\npublic expect open class IllegalStateException : RuntimeException { \n constructor()\n
constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause:
Throwable?)\n} \n\npublic expect open class IndexOutOfBoundsException : RuntimeException { \n constructor()\n
constructor(message: String?)\n} \n\npublic expect open class ConcurrentModificationException :
RuntimeException { \n constructor()\n constructor(message: String?)\n @Deprecated("\The constructor is not
supported on all platforms and will be removed from kotlin-stdlib-common soon.", level =
DeprecationLevel.ERROR)\n constructor(message: String?, cause: Throwable?)\n @Deprecated("\The
constructor is not supported on all platforms and will be removed from kotlin-stdlib-common soon.", level =
DeprecationLevel.ERROR)\n constructor(cause: Throwable?)\n} \n\npublic expect open class
UnsupportedOperationException : RuntimeException { \n constructor()\n constructor(message: String?)\n
constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n} \n\npublic expect open
class NumberFormatException : IllegalArgumentException { \n constructor()\n constructor(message:
String?)\n} \n\npublic expect open class NullPointerException : RuntimeException { \n constructor()\n
constructor(message: String?)\n} \n\npublic expect open class ClassCastException : RuntimeException { \n
constructor()\n constructor(message: String?)\n} \n\npublic expect open class AssertionError : Error { \n
constructor()\n constructor(message: Any?)\n} \n\npublic expect open class NoSuchElementException :
RuntimeException { \n constructor()\n constructor(message: String?)\n} \n\n@SinceKotlin("1.3")\npublic
expect open class ArithmeticException : RuntimeException { \n constructor()\n constructor(message:
String?)\n} \n\n@Deprecated("\This exception type is not supposed to be thrown or caught in common code and will
be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\npublic expect open class
NoWhenBranchMatchedException : RuntimeException { \n constructor()\n constructor(message: String?)\n
constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n} \n\n@Deprecated("\This
exception type is not supposed to be thrown or caught in common code and will be removed from kotlin-stdlib-
common soon.", level = DeprecationLevel.ERROR)\npublic expect class UninitializedPropertyAccessException :
RuntimeException { \n constructor()\n constructor(message: String?)\n constructor(message: String?, cause:
Throwable?)\n constructor(cause: Throwable?)\n} \n\n/**\n * Thrown after invocation of a function or property
that was expected to return `Nothing`, but returned something instead.\n
*\n@SinceKotlin("1.4")\n@PublishedApi\ninternal class KotlinNothingValueException : RuntimeException { \n
constructor() : super()\n constructor(message: String?) : super(message)\n constructor(message: String?, cause:
Throwable?) : super(message, cause)\n constructor(cause: Throwable?) : super(cause)\n} \n\n\n/**\n * Returns the
detailed description of this throwable with its stack trace.\n * \n * The detailed description includes:\n * - the short
description (see [Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of
the exceptions that were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed
description of each throwable in the [Throwable.cause] chain.\n * \n\n@SinceKotlin("1.4")\npublic expect fun

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Throwable.stackTraceToString(): String\n\n/**\n * Prints the [detailed description][Throwable.stackTraceToString] of this throwable to the standard output or standard error output.\n

*\n@SinceKotlin("1.4")\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\npublic expect fun Throwable.printStackTrace(): Unit\n\n/**\n * When supported by the platform, adds the specified exception to the list of exceptions that were\n * suppressed in order to deliver this exception.\n

*\n@SinceKotlin("1.4")\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\npublic expect fun Throwable.addSuppressed(exception: Throwable)\n\n/**\n * Returns a list of all exceptions that were suppressed in order to deliver this exception.\n * \n * The list can be empty:\n * - if no exceptions were suppressed;\n * - if the platform doesn't support suppressed exceptions;\n * - if this [Throwable] instance has disabled the suppression.\n

\n@SinceKotlin("1.4")\npublic expect val Throwable.suppressedExceptions: List<Throwable>\n","/\n

Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.js\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * Gives a declaration (a function, a property or a class) specific name in JavaScript.\n */\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\n@OptionalExpectation\npublic expect annotation class JsName(val name: String)\n\n/**\n * Marks experimental JS export annotations.\n * \n * Note that behavior of these annotations will likely be changed in the future.\n * \n * Usages of such annotations will be reported as warnings unless an explicit opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalJsExport::class)`,\n * or with the `-Xopt-in=kotlin.js.ExperimentalJsExport` compiler option is given.\n

*\n@Suppress("DEPRECATION")\n@Experimental(level = Experimental.Level.WARNING)\n@RequiresOptIn(level = RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.4")\npublic annotation class ExperimentalJsExport\n\n/**\n * Exports top-level declaration on JS platform.\n * \n * Compiled module exposes declarations that are marked with this annotation without name mangling.\n * \n * This annotation can be applied to either files or top-level declarations.\n * \n * It is currently prohibited to export the following kinds of declarations:\n * \n * * `expect` declarations\n * * inline functions with reified type parameters\n * * suspend functions\n * * secondary constructors without `@JsName`\n * * extension properties\n * * enum classes\n * * annotation classes\n * \n * Signatures of exported declarations must only contain "exportable" types:\n * \n * * `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`\n * * `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n * * `Array<exportable-type>`\n * * Function types with exportable parameters and return types\n * * `external` or `@JsExport` classes and interfaces\n * * Nullable counterparts of types above\n * * Unit return type. Must not be nullable\n * \n * This annotation is experimental, meaning that restrictions mentioned above are subject to change.\n

\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\n@SinceKotlin("1.4")\n@OptionalExpectation\npublic expect annotation class JsExport()\n","/\n

Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.io\n\n/**\n * Prints the line separator to the standard output stream. *\npublic expect fun println()\n\n/**\n * Prints the given [message] and the line separator to the standard output stream. *\npublic expect fun println(message: Any?)\n\n/**\n * Prints the given [message] to the standard output stream. *\npublic expect fun print(message: Any?)\n\n/**\n * Reads a line of input from the standard input stream and returns it,\n * or throws a [RuntimeException] if EOF has already been reached when [readln] is called.\n * \n * LF or CRLF is treated as the line terminator. Line terminator is not included in the returned string.\n * \n * Currently this function is not supported in Kotlin/JS and throws [UnsupportedOperationException].\n */\n@SinceKotlin("1.6")\npublic expect fun readln(): String\n\n/**\n * Reads a line of input from the standard input stream and returns it,\n * or return `null` if EOF has already been reached when [readlnOrNull] is called.\n * \n * LF or CRLF is treated as the line terminator. Line terminator is not included in the returned string.\n * \n * Currently this function is not supported in Kotlin/JS and throws [UnsupportedOperationException].\n */\n@SinceKotlin("1.6")\npublic expect fun readlnOrNull():

```

String?
internal class ReadAfterEOFException(message: String?) : RuntimeException(message)
internal expect interface Serializable
"/
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
package kotlin.collections
import kotlin.internal.PlatformDependent
Classes that inherit from this interface can be represented as a sequence of elements that can be iterated over.
@param T the type of element being iterated over. The iterator is covariant in its element type.
public interface Iterable<out T> {
    /**
     * Returns an iterator over the elements of this object.
     */
    public operator fun iterator(): Iterator<T>
}
Classes that inherit from this interface can be represented as a sequence of elements that can be iterated over and that supports removing elements during iteration.
@param T the type of element being iterated over. The mutable iterator is invariant in its element type.
public interface MutableIterable<out T> : Iterable<T> {
    /**
     * Returns an iterator over the elements of this sequence that supports removing elements during iteration.
     */
    override fun iterator(): MutableIterator<T>
}
A generic collection of elements. Methods in this interface support only read-only access to the collection; read/write access is supported through the [MutableCollection] interface.
@param E the type of elements contained in the collection. The collection is covariant in its element type.
public interface Collection<out E> : Iterable<E> {
    // Query Operations
    /**
     * Returns the size of the collection.
     */
    public val size: Int
    /**
     * Returns `true` if the collection is empty (contains no elements), `false` otherwise.
     */
    public fun isEmpty(): Boolean
    /**
     * Checks if the specified element is contained in this collection.
     */
    public operator fun contains(element: @UnsafeVariance E): Boolean
    override fun iterator(): Iterator<E>
    // Bulk Operations
    /**
     * Checks if all elements in the specified collection are contained in this collection.
     */
    public fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean
}
A generic collection of elements that supports adding and removing elements.
@param E the type of elements contained in the collection. The mutable collection is invariant in its element type.
public interface MutableCollection<E> : Collection<E>, MutableIterable<E> {
    // Query Operations
    override fun iterator(): MutableIterator<E>
    // Modification Operations
    /**
     * Adds the specified element to the collection.
     *
     * @return `true` if the element has been added, `false` if the collection does not support duplicates and the element is already contained in the collection.
     */
    public fun add(element: E): Boolean
    /**
     * Removes a single instance of the specified element from this collection, if it is present.
     *
     * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.
     */
    public fun remove(element: E): Boolean
    // Bulk Modification Operations
    /**
     * Adds all of the elements of the specified collection to this collection.
     *
     * @return `true` if any of the specified elements was added to the collection, `false` if the collection was not modified.
     */
    public fun addAll(elements: Collection<E>): Boolean
    /**
     * Removes all of this collection's elements that are also contained in the specified collection.
     *
     * @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.
     */
    public fun removeAll(elements: Collection<E>): Boolean
    /**
     * Retains only the elements in this collection that are contained in the specified collection.
     *
     * @return `true` if any element was removed from the collection, `false` if the collection was not modified.
     */
    public fun retainAll(elements: Collection<E>): Boolean
    /**
     * Removes all elements from this collection.
     */
    public fun clear(): Unit
}
A generic ordered collection of elements. Methods in this interface support only read-only access to the list; read/write access is supported through the [MutableList] interface.
@param E the type of elements contained in the list. The list is covariant in its element type.
public interface List<out E> : Collection<E> {
    // Query Operations
    override val size: Int
    override fun isEmpty(): Boolean
    override fun contains(element: @UnsafeVariance E): Boolean
    override fun iterator(): Iterator<E>
    // Bulk Operations
    override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean
    // Positional Access Operations
    /**
     * Returns the element at the specified index in the list.
     */
    public operator fun get(index: Int): E
    // Search Operations
    /**
     * Returns the index of the first occurrence of the specified element in the list, or -1 if the specified element is not contained in the list.
     */
    public fun indexOf(element: @UnsafeVariance E): Int
    /**
     * Returns the index of the last

```

occurrence of the specified element in the list, or -1 if the specified element is not contained in the list.

```

* public fun lastIndexOf(element: @UnsafeVariance E): Int // List Iterators
/** Returns a list iterator over the elements in this list (in proper sequence).
* public fun listIterator(): ListIterator<E>
/** Returns a list iterator over the elements in this list (in proper sequence), starting at the specified [index].
* public fun listIterator(index: Int): ListIterator<E> // View
/** Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).
* The returned list is backed by this list, so non-structural changes in the returned list are reflected in this list, and vice-versa.
* Structural changes in the base list make the behavior of the view undefined.
* public fun subList(fromIndex: Int, toIndex: Int): List<E>
/** A generic ordered collection of elements that supports adding and removing elements.
* @param E the type of elements contained in the list. The mutable list is invariant in its element type.
* public interface MutableList<E> : List<E>, MutableCollection<E> { // Modification Operations
/** Adds the specified element to the end of this list.
* @return `true` because the list is always modified as the result of this operation.
* override fun add(element: E): Boolean
override fun remove(element: E): Boolean // Bulk Modification Operations
/** Adds all of the elements of the specified collection to the end of this list.
* The elements are appended in the order they appear in the [elements] collection.
* @return `true` if the list was changed as the result of the operation.
* override fun addAll(elements: Collection<E>): Boolean
/** Inserts all of the elements of the specified collection [elements] into this list at the specified [index].
* @return `true` if the list was changed as the result of the operation.
* public fun addAll(index: Int, elements: Collection<E>): Boolean
override fun removeAll(elements: Collection<E>): Boolean
override fun retainAll(elements: Collection<E>): Boolean
override fun clear(): Unit // Positional Access Operations
/** Replaces the element at the specified position in this list with the specified element.
* @return the element previously at the specified position.
* public operator fun set(index: Int, element: E): E
/** Inserts an element into the list at the specified [index].
* public fun add(index: Int, element: E): Unit
/** Removes an element at the specified [index] from the list.
* @return the element that has been removed.
* public fun removeAt(index: Int): E // List Iterators
override fun listIterator(): MutableListIterator<E>
override fun listIterator(index: Int): MutableListIterator<E> // View
override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>
/** A generic unordered collection of elements that does not support duplicate elements.
* Methods in this interface support only read-only access to the set; read/write access is supported through the [MutableSet] interface.
* @param E the type of elements contained in the set. The set is covariant in its element type.
* public interface Set<out E> : Collection<E> { // Query Operations
override val size: Int
override fun isEmpty(): Boolean
override fun contains(element: @UnsafeVariance E): Boolean
override fun iterator(): Iterator<E> // Bulk Operations
override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean
/** A generic unordered collection of elements that does not support duplicate elements, and supports adding and removing elements.
* @param E the type of elements contained in the set. The mutable set is invariant in its element type.
* public interface MutableSet<E> : Set<E>, MutableCollection<E> { // Query Operations
override fun iterator(): MutableIterator<E> // Modification Operations
/** Adds the specified element to the set.
* @return `true` if the element has been added, `false` if the element is already contained in the set.
* override fun add(element: E): Boolean
override fun remove(element: E): Boolean // Bulk Modification Operations
override fun addAll(elements: Collection<E>): Boolean
override fun removeAll(elements: Collection<E>): Boolean
override fun retainAll(elements: Collection<E>): Boolean
override fun clear(): Unit
/** A collection that holds pairs of objects (keys and values) and supports efficiently retrieving the value corresponding to each key. Map keys are unique; the map holds only one value for each key.
* Methods in this interface support only read-only access to the map; read-write access is supported through the [MutableMap] interface.
* @param K the type of map keys. The map is invariant in its key type, as it can accept key as a parameter (of [containsKey] for example) and return it in [keys] set.
* @param V the type of map values. The map is covariant in its value type.
* public interface Map<K, out V> { // Query Operations

```



```

/**\n * Returns the number of key/value pairs in the map.\n */\n public val size: Int\n\n /**\n * Returns `true` if the map is empty (contains no elements), `false` otherwise.\n */\n public fun isEmpty(): Boolean\n\n /**\n * Returns `true` if the map contains the specified [key].\n */\n public fun containsKey(key: K): Boolean\n\n /**\n * Returns `true` if the map maps one or more keys to the specified [value].\n */\n public fun containsValue(value: @UnsafeVariance V): Boolean\n\n /**\n * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\n */\n public operator fun get(key: K): V?\n\n /**\n * Returns the value corresponding to the given [key], or [defaultValue] if such a key is not present in the map.\n */\n * @since JDK 1.8\n */\n @SinceKotlin("1.1")\n @PlatformDependent\n public fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {\n // See default implementation in JDK sources\n throw NotImplementedError()\n }\n\n // Views\n /**\n * Returns a read-only [Set] of all keys in this map.\n */\n public val keys: Set<K>\n\n /**\n * Returns a read-only [Collection] of all values in this map. Note that this collection may contain duplicate values.\n */\n public val values: Collection<V>\n\n /**\n * Returns a read-only [Set] of all key/value pairs in this map.\n */\n public val entries: Set<Map.Entry<K, V>>\n\n /**\n * Represents a key/value pair held by a [Map].\n */\n public interface Entry<out K, out V> {\n /**\n * Returns the key of this key/value pair.\n */\n public val key: K\n\n /**\n * Returns the value of this key/value pair.\n */\n public val value: V\n }\n\n /**\n * A modifiable collection that holds pairs of objects (keys and values) and supports efficiently retrieving\n * the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\n * @param K the type of map keys. The map is invariant in its key type.\n * @param V the type of map values. The mutable map is invariant in its value type.\n */\n public interface MutableMap<K, V> : Map<K, V> {\n // Modification Operations\n /**\n * Associates the specified [value] with the specified [key] in the map.\n */\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\n */\n public fun put(key: K, value: V): V?\n\n /**\n * Removes the specified key and its corresponding value from this map.\n */\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\n */\n public fun remove(key: K): V?\n\n /**\n * Removes the entry for the specified key only if it is mapped to the specified value.\n */\n * @return true if entry was removed\n */\n @SinceKotlin("1.1")\n @PlatformDependent\n public fun remove(key: K, value: V): Boolean {\n // See default implementation in JDK sources\n return true\n }\n\n // Bulk Modification Operations\n /**\n * Updates this map with key/value pairs from the specified map [from].\n */\n public fun putAll(from: Map<out K, V>): Unit\n\n /**\n * Removes all elements from this map.\n */\n public fun clear(): Unit\n\n // Views\n /**\n * Returns a [MutableSet] of all keys in this map.\n */\n override val keys: MutableSet<K>\n\n /**\n * Returns a [MutableCollection] of all values in this map. Note that this collection may contain duplicate values.\n */\n override val values: MutableCollection<V>\n\n /**\n * Returns a [MutableSet] of all key/value pairs in this map.\n */\n override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n\n /**\n * Represents a key/value pair held by a [MutableMap].\n */\n public interface MutableEntry<K, V> : Map.Entry<K, V> {\n /**\n * Changes the value associated with the key of this entry.\n */\n * @return the previous value corresponding to the key.\n */\n public fun setValue(newValue: V): V\n }\n}\n\n"/\n\n" * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.collections\n\n/**\n * An iterator over a sequence of values of type `Byte`.\n */\n public abstract class ByteIterator : Iterator<Byte> {\n override final fun next() = nextByte()\n\n /**\n * Returns the next value in the sequence without boxing.\n */\n public abstract fun nextByte(): Byte\n }\n\n /**\n * An iterator over a sequence of values of type `Char`.\n */\n public abstract class CharIterator : Iterator<Char> {\n override final fun next() = nextChar()\n\n /**\n * Returns the next value in the sequence without boxing.\n */\n public abstract fun nextChar(): Char\n }\n\n /**\n * An iterator over a sequence of values of type `Short`.\n */\n public abstract class ShortIterator : Iterator<Short> {\n override final fun next() = nextShort()\n\n /**\n * Returns the next value in the sequence without boxing.\n */\n public abstract fun nextShort(): Short\n }\n\n /**\n * An iterator over a sequence of values of type `Int`.\n */\n public abstract class IntIterator : Iterator<Int> {\n override final fun next() = nextInt()\n\n /**\n * Returns the

```

```

next value in the sequence without boxing. */
public abstract fun nextInt(): Int
}

/** An iterator over a
sequence of values of type `Long`.
*/
public abstract class LongIterator : Iterator<Long> {
    override final fun
next() = nextLong()
}

/** Returns the next value in the sequence without boxing.
*/
public abstract fun
nextLong(): Long
}

/** An iterator over a sequence of values of type `Float`.
*/
public abstract class
FloatIterator : Iterator<Float> {
    override final fun
next() = nextFloat()
}

/** Returns the next value in the
sequence without boxing.
*/
public abstract fun
nextFloat(): Float
}

/** An iterator over a sequence of
values of type `Double`.
*/
public abstract class
DoubleIterator : Iterator<Double> {
    override final fun
next() =
nextDouble()
}

/** Returns the next value in the
sequence without boxing.
*/
public abstract fun
nextDouble(): Double
}

/** An iterator over a sequence of
values of type `Boolean`.
*/
public abstract class
BooleanIterator : Iterator<Boolean> {
    override final fun
next() =
nextBoolean()
}

/** Returns the next value
in the sequence without boxing.
*/
public abstract fun
nextBoolean(): Boolean
}

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Apache 2.0 license that can be found in the
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*/
// Auto-generated file. DO NOT
EDIT!
package kotlin.ranges

/** An iterator over a progression of values of type `Char`.
*/
@property
step the number by which the value is incremented on each step.
internal class CharProgressionIterator(first:
Char, last: Char, val step: Int) : CharIterator() {
    private val finalElement: Int = last.code
    private var hasNext:
Boolean = if (step > 0) first <= last else first >= last
    private var next: Int = if (hasNext) first.code else
finalElement
    override fun hasNext(): Boolean = hasNext
    override fun nextChar(): Char {
        val value
= next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value.toChar()
    }
}

/** An iterator over a progression of values of type `Int`.
*/
@property
step the number by which the value is
incremented on each step.
internal class IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator() {
    private val finalElement: Int = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >=
last
    private var next: Int = if (hasNext) first else finalElement
    override fun hasNext(): Boolean =
hasNext
    override fun nextInt(): Int {
        val value = next
        if (value == finalElement) {
            if
(!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next +=
step
        }
        return value
    }
}

/** An iterator over a progression of values of type `Long`.
*/
@property
step the number by which the value is incremented on each step.
internal class
LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {
    private val finalElement: Long
= last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next: Long = if
(hasNext) first else finalElement
    override fun hasNext(): Boolean = hasNext
    override fun nextLong():
Long {
        val value = next
        if (value == finalElement) {
            if
(!hasNext) throw
kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next +=
step
        }
        return value
    }
}

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license/LICENSE.txt file.
*/
// Auto-generated file. DO NOT EDIT!
package kotlin.ranges
import
kotlin.internal.getProgressionLastElement

/** A progression of values of type `Char`.
*/
public open class
CharProgression(
    internal constructor(
        \n
start: Char, \n
endInclusive: Char, \n
step: Int
) : Iterable<Char> {
    init {
        if (step == 0) throw kotlin.IllegalArgumentException("Step must be non-
zero.")
        if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than
Int.MIN_VALUE to avoid overflow on negation.")
    }
}

/** The first element in the progression.
*/
public val first: Char = start
/** The last element in the progression.
*/
public val last:
Char = getProgressionLastElement(start.code, endInclusive.code, step).toChar()
/** The step of the
progression.
*/
public val step: Int = step
override fun iterator(): CharIterator =
CharProgressionIterator(first, last, step)
/** Checks if the progression is empty.
*/
/** Progression
with a positive step is empty if its first element is greater than the last element.
*/
/** Progression with a negative
step is empty if its first element is less than the last element.
*/
public open fun isEmpty(): Boolean = if
(step > 0) first > last else first < last
override fun equals(other: Any?): Boolean =
other is

```

```

CharProgression && (isEmpty() && other.isEmpty()) ||\n    first == other.first && last == other.last && step ==
other.step)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * first.code + last.code) +
step)\n\n    override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-
step}\"\n\n    companion object {\n        /**\n         * Creates CharProgression within the specified bounds of a
closed range.\n         * \n         * The progression starts with the [rangeStart] value and goes toward the [rangeEnd]
value not excluding it, with the specified [step].\n         * \n         * In order to go backwards the [step] must be negative.\n         * \n         * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n         */\n        public fun
fromClosedRange(rangeStart: Char, rangeEnd: Char, step: Int): CharProgression = CharProgression(rangeStart,
rangeEnd, step)\n    }\n\n    /**\n     * A progression of values of type `Int`.\n     */\n    public open class IntProgression\n    internal constructor(\n        start: Int,\n        endInclusive: Int,\n        step: Int\n    ) : Iterable<Int> {\n    init {\n        if (step == 0) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n        if (step ==
Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid
overflow on negation.\")\n    }\n\n    /**\n     * The first element in the progression.\n     */\n    public val first: Int =
start\n\n    /**\n     * The last element in the progression.\n     */\n    public val last: Int =
getProgressionLastElement(start, endInclusive, step)\n\n    /**\n     * The step of the progression.\n     */\n    public
val step: Int = step\n\n    override fun iterator(): IntIterator = IntProgressionIterator(first, last, step)\n\n    /**\n     *
Checks if the progression is empty.\n     * \n     * Progression with a positive step is empty if its first element is
greater than the last element.\n     * \n     * Progression with a negative step is empty if its first element is less than the last
element.\n     */\n    public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n    override fun
equals(other: Any?): Boolean =\n        other is IntProgression && (isEmpty() && other.isEmpty()) ||\n        first ==
other.first && last == other.last && step == other.step)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1
else (31 * (31 * first + last) + step)\n\n    override fun toString(): String = if (step > 0) \"$first..$last step $step\" else
\"$first downTo $last step ${-step}\"\n\n    companion object {\n        /**\n         * Creates IntProgression within the
specified bounds of a closed range.\n         * \n         * The progression starts with the [rangeStart] value and goes
toward the [rangeEnd] value not excluding it, with the specified [step].\n         * \n         * In order to go backwards the [step]
must be negative.\n         * \n         * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n         */\n        public fun
fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression =
IntProgression(rangeStart, rangeEnd, step)\n    }\n\n    /**\n     * A progression of values of type `Long`.\n     */\n    public open class LongProgression\n    internal constructor(\n        start: Long,\n        endInclusive: Long,\n        step: Long\n    ) : Iterable<Long> {\n    init {\n        if (step == 0L) throw kotlin.IllegalArgumentException(\"Step
must be non-zero.\")\n        if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be
greater than Long.MIN_VALUE to avoid overflow on negation.\")\n    }\n\n    /**\n     * The first element in the
progression.\n     */\n    public val first: Long = start\n\n    /**\n     * The last element in the progression.\n     */\n    public
val last: Long = getProgressionLastElement(start, endInclusive, step)\n\n    /**\n     * The step of the
progression.\n     */\n    public val step: Long = step\n\n    override fun iterator(): LongIterator =
LongProgressionIterator(first, last, step)\n\n    /**\n     * Checks if the progression is empty.\n     * \n     *
Progression with a positive step is empty if its first element is greater than the last element.\n     * \n     * Progression with a
negative step is empty if its first element is less than the last element.\n     */\n    public open fun isEmpty(): Boolean
= if (step > 0) first > last else first < last\n\n    override fun equals(other: Any?): Boolean =\n        other is
LongProgression && (isEmpty() && other.isEmpty()) ||\n        first == other.first && last == other.last && step ==
other.step)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) +
(last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()\n\n    override fun toString(): String = if (step > 0)
\"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n    companion object {\n        /**\n         *
Creates LongProgression within the specified bounds of a closed range.\n         * \n         * The progression starts
with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n         * \n
         * In order to go backwards the [step] must be negative.\n         * \n         * [step] must be greater than
`Long.MIN_VALUE` and not equal to zero.\n         */\n        public fun fromClosedRange(rangeStart: Long,
rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart, rangeEnd, step)\n    }\n\n    /**\n     *

```

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`kotlin.ranges` Represents a range of values (for example, numbers or characters). See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.

interface `ClosedRange<T: Comparable<T>>` {
`start: T` The minimum value in the range.
`endInclusive: T` The maximum value in the range (inclusive).
`contains(value: T): Boolean` Checks whether the specified [value] belongs to the range.
`contains(value: T): Boolean` = `value >= start && value <= endInclusive`
`isEmpty(): Boolean` Checks whether the range is empty.
 The range is empty if its start value is greater than the end value.
`isEmpty(): Boolean` = `start > endInclusive`

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`kotlin.Unit` The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.

object `Unit` {
`toString(): String` = `"kotlin.Unit"`

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`kotlin.annotation.AnnotationTarget` Contains the list of code elements which are the possible annotation targets

enum class `AnnotationTarget` {
`CLASS` Class, interface or object, annotation class is also included
`ANNOTATION_CLASS` Annotation class only
`TYPE_PARAMETER` Generic type parameter
`PROPERTY` Property
`FIELD` Field, including property's backing field
`LOCAL_VARIABLE` Local variable
`VALUE_PARAMETER` Value parameter of a function or a constructor
`CONSTRUCTOR` Constructor only (primary or secondary)
`FUNCTION` Function (constructors are not included)
`PROPERTY_GETTER` Property getter only
`PROPERTY_SETTER` Property setter only
`TYPE_USAGE` Type usage
`TYPE` Any expression
`EXPRESSION` Any expression
`FILE` File
`TYPE_ALIAS` Type alias

`@SinceKotlin("1.1") TYPEALIAS` Contains the list of possible annotation's retentions. Determines how an annotation is stored in binary output.

enum class `AnnotationRetention` {
`SOURCE` Annotation isn't stored in binary output
`BINARY` Annotation is stored in binary output, but invisible for reflection
`RUNTIME` Annotation is stored in binary output and visible for reflection (default retention)

`AnnotationTarget` This meta-annotation indicates the kinds of code elements which are possible targets of an annotation. If the target meta-annotation is not present on an annotation declaration, the annotation is applicable to the following elements: `[CLASS]`, `[PROPERTY]`, `[FIELD]`, `[LOCAL_VARIABLE]`, `[VALUE_PARAMETER]`, `[CONSTRUCTOR]`, `[FUNCTION]`, `[PROPERTY_GETTER]`, `[PROPERTY_SETTER]`.

`@property allowedTargets` list of allowed annotation targets

`@Target(AnnotationTarget.ANNOTATION_CLASS)` `@MustBeDocumented` public annotation class `Target`(vararg val allowedTargets: AnnotationTarget)

This meta-annotation determines whether an annotation is stored in binary output and visible for reflection. By default, both are true.

`@property value necessary annotation retention (RUNTIME, BINARY or SOURCE)`

`@Target(AnnotationTarget.ANNOTATION_CLASS)` public annotation class `Retention`(val value: AnnotationRetention = AnnotationRetention.RUNTIME)

This meta-annotation determines that an annotation is applicable twice or more on a single code element

```

*\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class Repeatable\n\n/**\n * This meta-annotation determines that an annotation is a part of public API and therefore should be included in the generated\n * documentation for the element to which the annotation is applied.\n
*\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class MustBeDocumented\n"/*\n * Copyright 2010-2016 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the "License");\n *\n * you may not use this file except in compliance with the License.\n *\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing,\n * software\n * distributed under the License is distributed on an "AS IS" BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n
*\n\npackage kotlin.internal\n\n/**\n * Specifies that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks\n * That means it's completely safe to use generic types as argument for such parameter.\n
*\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PureReifiable\n\n/**\n * Specifies that the corresponding built-in method exists depending on platform.\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the module JDK.\n * For example MutableMap.remove(K, V) available only if corresponding\n * method 'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)\n
*\n@Target(AnnotationTarget.FUNCTION)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PlatformDependent\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.internal\n\n// a mod b (in arithmetical sense)\nprivate fun mod(a: Int, b: Int): Int {\n    val mod = a % b\n    return if (mod >= 0) mod else mod + b\n}\n\nprivate fun mod(a: Long, b: Long): Long {\n    val mod = a % b\n    return if (mod >= 0) mod else mod + b\n}\n\n// (a - b) mod c\nprivate fun differenceModulo(a: Int, b: Int, c: Int): Int {\n    return mod(mod(a, c) - mod(b, c), c)\n}\n\nprivate fun differenceModulo(a: Long, b: Long, c: Long): Long {\n    return mod(mod(a, c) - mod(b, c), c)\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n
*\n@PublishedApi\ninternal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\n    else -> throw kotlin.IllegalArgumentException("Step is zero.")\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n
*\n@PublishedApi\ninternal fun getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\n    else -> throw\n    kotlin.IllegalArgumentException("Step is zero.")\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license: that can be found in the license/LICENSE.txt file.\n
*\n\n@JsName("arrayIterator")\ninternal fun arrayIterator(array: dynamic, type: String?) = when (type) {\n    null -> {\n        val arr: Array<dynamic> = array\n        object : Iterator<dynamic> {\n            var index = 0\n            override fun hasNext() = index < arr.size\n            override fun

```

```

next() = if (index < arr.size) arr[index++] else throw NoSuchElementException("$index")\n    }\n }\n
\n"BooleanArray" -> booleanArrayIterator(array)\n \n"ByteArray" -> byteArrayIterator(array)\n \n"ShortArray" -
> shortArrayIterator(array)\n \n"CharArray" -> charArrayIterator(array)\n \n"IntArray" ->
intArrayIterator(array)\n \n"LongArray" -> longArrayIterator(array)\n \n"FloatArray" ->
floatArrayIterator(array)\n \n"DoubleArray" -> doubleArrayIterator(array)\n else -> throw
IllegalStateException("Unsupported type argument for arrayIterator:
$type")\n}\n\n\n@JsName("booleanArrayIterator")\ninternal fun booleanArrayIterator(array: BooleanArray) =
object : BooleanIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override fun
nextBoolean() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n\n@JsName("byteArrayIterator")\ninternal fun byteArrayIterator(array:
ByteArray) = object : ByteIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override
fun nextByte() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n\n@JsName("shortArrayIterator")\ninternal fun
shortArrayIterator(array: ShortArray) = object : ShortIterator() {\n    var index = 0\n    override fun hasNext() =
index < array.size\n    override fun nextShort() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n\n@JsName("charArrayIterator")\ninternal fun charArrayIterator(array:
CharArray) = object : CharIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override
fun nextChar() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n\n@JsName("intArrayIterator")\ninternal fun intArrayIterator(array:
IntArray) = object : IntIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override fun
nextInt() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n\n@JsName("floatArrayIterator")\ninternal fun
floatArrayIterator(array: FloatArray) = object : FloatIterator() {\n    var index = 0\n    override fun hasNext() = index
< array.size\n    override fun nextFloat() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n\n@JsName("doubleArrayIterator")\ninternal fun
doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\n    var index = 0\n    override fun hasNext()
= index < array.size\n    override fun nextDouble() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n\n@JsName("longArrayIterator")\ninternal fun longArrayIterator(array:
LongArray) = object : LongIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n
override fun nextLong() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n\n@JsName("PropertyMetadata")\ninternal class
PropertyMetadata(@JsName("callableName") val name:
String)\n\n\n@JsName("noWhenBranchMatched")\ninternal fun noWhenBranchMatched(): Nothing = throw
NoWhenBranchMatchedException()\n\n\n@JsName("subSequence")\ninternal fun subSequence(c: CharSequence,
startIndex: Int, endIndex: Int): CharSequence {\n    if (c is String) {\n        return c.substring(startIndex, endIndex)\n
    } else {\n        return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)\n
    }\n}\n\n\n@JsName("captureStack")\ninternal fun captureStack(@Suppress("UNUSED_PARAMETER")
baseClass: JsClass<in Throwable>, instance: Throwable) {\n    if (js("Error").captureStackTrace) {\n        // Using
uncropped stack traces due to KT-37563.\n        // Precise stack traces are implemented in JS IR compiler and
stdlib\n        js("Error").captureStackTrace(instance);\n    } else {\n        instance.asDynamic().stack = js("new
Error()").stack;\n    }\n}\n\n\n@JsName("newThrowable")\ninternal fun newThrowable(message: String?, cause:
Throwable?): Throwable {\n    val throwable = js("new Error()")\n    throwable.message = if (jsTypeOf(message)
== "undefined") {\n        if (cause != null) cause.toString() else null\n    } else {\n        message\n    }\n
throwable.cause = cause\n    throwable.name = "Throwable"\n    return
throwable\n}\n\n\n@JsName("BoxedChar")\ninternal class BoxedChar(val c: Int) : Comparable<Int> {\n    override
fun equals(other: Any?): Boolean {\n        return other is BoxedChar && c == other.c\n    }\n    override fun
hashCode(): Int {\n        return c\n    }\n    override fun toString(): String {\n        return
js("this.c").unsafeCast<Char>().toString()\n    }\n    override fun compareTo(other: Int): Int {\n        return

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js("this.c - other").unsafeCast<Int>()\n } \n\n @JsName("valueOf")\n public fun valueOf(): Int {\n
return c\n } \n\n\n@kotlin.internal.InlineOnly\ninternal inline fun <T> concat(args: Array<T>): T {\n val typed
= js("Array")(args.size)\n for (i in args.indices) {\n val arr = args[i]\n if (arr !is Array<*>) {\n
typed[i] = js("[]").slice.call(arr)\n } else {\n typed[i] = arr\n } \n } \n return
js("[]").concat.apply(js("[ ]"), typed);\n}\n\n/** Concat regular Array's and TypedArray's into an Array.\n
*\n@PublishedApi\n@JsName("arrayConcat")\n@Suppress("UNUSED_PARAMETER")\ninternal fun <T>
arrayConcat(a: T, b: T): T {\n return concat(js("arguments"))\n}\n\n/** Concat primitive arrays. Main use:
prepare vararg arguments.\n * For compatibility with 1.1.0 the arguments may be a mixture of Array's and
TypedArray's.\n *\n * If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray)
returns a TypedArray, otherwise an Array.\n * If the first argument has the $type$ property (Boolean-, Char-, and
LongArray) copy its value to result.$type$.\n * If the first argument is a regular Array without the $type$ property
default to arrayConcat.\n
*\n@PublishedApi\n@JsName("primitiveArrayConcat")\n@Suppress("UNUSED_PARAMETER")\ninternal
fun <T> primitiveArrayConcat(a: T, b: T): T {\n val args: Array<T> = js("arguments")\n if (a is Array<*> &&
a.asDynamic().`$type$` === undefined) {\n return concat(args)\n } else {\n var size = 0\n for (i in
args.indices) {\n size += args[i].asDynamic().length as Int\n } \n val result = js("new
a.constructor(size)")\n kotlin.copyArrayType(a, result)\n size = 0\n for (i in args.indices) {\n val
arr = args[i].asDynamic()\n for (j in 0 until arr.length) {\n result[size++] = arr[j]\n } \n } \n
return result\n } \n}\n\n@JsName("booleanArrayOf")\ninternal fun booleanArrayOf() =
withType("BooleanArray", js("[].slice.call(arguments)")\n)\n\n@JsName("charArrayOf") // The arguments have
to be slice'd here because of Rhino (see KT-16974)\ninternal fun charArrayOf() = withType("CharArray", js("new
Uint16Array([].slice.call(arguments)))\n)\n\n@JsName("longArrayOf")\ninternal fun longArrayOf() =
withType("LongArray",
js("[].slice.call(arguments)")\n)\n\n@JsName("withType")\n@kotlin.internal.InlineOnly\ninternal inline fun
withType(type: String, array: dynamic): dynamic {\n array.`$type$` = type\n return array\n},"/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n *
Function corresponding to JavaScript's `typeof` operator\n
*\n@kotlin.internal.InlineOnly\n@Suppress("UNUSED_PARAMETER")\npublic inline fun jsTypeOf(a: Any?):
String = js("typeof a")\n},"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n@file:Suppress("UNUSED_PARAMETER",
"NOTHING_TO_INLINE")\n\npackage kotlin\n\n/**\n * Returns an empty array of the specified type [T].\n
*\n\npublic inline fun <T> emptyArray(): Array<T> = js("[ ]")\n\n@library\npublic fun <T> arrayOf(vararg
elements: T): Array<T> = definedExternally\n\n@library\npublic fun doubleArrayOf(vararg elements: Double):
DoubleArray = definedExternally\n\n@library\npublic fun floatArrayOf(vararg elements: Float): FloatArray =
definedExternally\n\n@library\npublic fun longArrayOf(vararg elements: Long): LongArray =
definedExternally\n\n@library\npublic fun intArrayOf(vararg elements: Int): IntArray =
definedExternally\n\n@library\npublic fun charArrayOf(vararg elements: Char): CharArray =
definedExternally\n\n@library\npublic fun shortArrayOf(vararg elements: Short): ShortArray =
definedExternally\n\n@library\npublic fun byteArrayOf(vararg elements: Byte): ByteArray =
definedExternally\n\n@library\npublic fun booleanArrayOf(vararg elements: Boolean): BooleanArray =
definedExternally\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function
[initializer].\n *\n\npublic actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n *
Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n * The [mode]
parameter is ignored.\n *\n\npublic actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> =
UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization
function [initializer].\n *\n * The [lock] parameter is ignored.\n *\n\npublic actual fun <T> lazy(lock: Any?,

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contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *^\n\n@file:Suppress("\UNCHECKED_CAST",
"\RedundantVisibilityModifier")\n\npackage kotlin\n\nimport kotlin.contracts.*\nimport
kotlin.internal.InlineOnly\nimport kotlin.jvm.JvmField\nimport kotlin.jvm.JvmInline\nimport
kotlin.jvm.JvmName\n\n/**\n * A discriminated union that encapsulates a successful outcome with a value of type
[T]\n * or a failure with an arbitrary [Throwable] exception.\n *^\n\n@SinceKotlin("1.3")\n\n@JvmInline\n\npublic
value class Result<out T> @PublishedApi internal constructor(\n @PublishedApi\n internal val value: Any?) :
Serializable {\n // discovery\n\n /**\n * Returns `true` if this instance represents a successful outcome.\n *
In this case [isFailure] returns `false`.\n *^\n public val isSuccess: Boolean get() = value !is Failure\n\n /**\n
* Returns `true` if this instance represents a failed outcome.\n * In this case [isSuccess] returns `false`.\n *^\n
public val isFailure: Boolean get() = value is Failure\n\n // value & exception retrieval\n\n /**\n * Returns the
encapsulated value if this instance represents [success][Result.isSuccess] or `null`\n * if it is
[failure][Result.isFailure].\n *^\n * This function is a shorthand for `getOrElse { null }` (see [getOrElse]) or\n
* `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).\n *^\n @InlineOnly\n public inline fun
getOrNull(): T? =\n when {\n isFailure -> null\n else -> value as T\n }\n\n /**\n *
Returns the encapsulated [Throwable] exception if this instance represents [failure][isFailure] or `null`\n * if it is
[success][isSuccess].\n *^\n * This function is a shorthand for `fold(onSuccess = { null }, onFailure = { it })`
(see [fold]).\n *^\n public fun exceptionOrNull(): Throwable? =\n when (value) {\n is Failure ->
value.exception\n else -> null\n }\n\n /**\n * Returns a string `Success(v)` if this instance represents
[success][Result.isSuccess]\n * where `v` is a string representation of the value or a string `Failure(x)` if\n * it
is [failure][isFailure] where `x` is a string representation of the exception.\n *^\n public override fun toString():
String =\n when (value) {\n is Failure -> value.toString() // "Failure($exception)"\n else ->
"Success($value)"\n }\n\n // companion with constructors\n\n /**\n * Companion object for [Result]
class that contains its constructor functions\n * [success] and [failure].\n *^\n public companion object {\n
/**\n * Returns an instance that encapsulates the given [value] as successful value.\n *^\n
@Suppress("\INAPPLICABLE_JVM_NAME")\n @InlineOnly\n @JvmName("\success")\n public
inline fun <T> success(value: T): Result<T> =\n Result(value)\n\n /**\n * Returns an instance that
encapsulates the given [Throwable] [exception] as failure.\n *^\n
@Suppress("\INAPPLICABLE_JVM_NAME")\n @InlineOnly\n @JvmName("\failure")\n public
inline fun <T> failure(exception: Throwable): Result<T> =\n Result(createFailure(exception))\n }\n\n
internal class Failure(\n @JvmField\n val exception: Throwable\n ): Serializable {\n override fun
equals(other: Any?): Boolean = other is Failure && exception == other.exception\n override fun hashCode():
Int = exception.hashCode()\n override fun toString(): String = "Failure($exception)"\n }\n\n/**\n *
Creates an instance of internal marker [Result.Failure] class to\n * make sure that this class is not exposed in ABI.\n
*^\n\n@PublishedApi\n\n@SinceKotlin("1.3")\n\ninternal fun createFailure(exception: Throwable): Any =\n
Result.Failure(exception)\n\n/**\n * Throws exception if the result is failure. This internal function minimizes\n
* inlined bytecode for [getOrThrow] and makes sure that in the future we can\n * add some exception-augmenting
logic here (if needed).\n *^\n\n@PublishedApi\n\n@SinceKotlin("1.3")\n\ninternal fun Result<*>.throwOnFailure() {\n
if (value is Result.Failure) throw value.exception\n}\n\n/**\n * Calls the specified function [block] and returns its
encapsulated result if invocation was successful,\n * catching any [Throwable] exception that was thrown from the
[block] function execution and encapsulating it as a failure.\n *^\n\n@InlineOnly\n\n@SinceKotlin("1.3")\n\npublic
inline fun <R> runCatching(block: () -> R): Result<R> {\n return try {\n Result.success(block())\n } catch
(e: Throwable) {\n Result.failure(e)\n }\n}\n\n/**\n * Calls the specified function [block] with `this` value as
its receiver and returns its encapsulated result if invocation was successful,\n * catching any [Throwable] exception
that was thrown from the [block] function execution and encapsulating it as a failure.\n
*^\n\n@InlineOnly\n\n@SinceKotlin("1.3")\n\npublic inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {\n
return try {\n Result.success(block())\n } catch (e: Throwable) {\n Result.failure(e)\n }\n}\n\n// --
extensions ---\n\n/**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or

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throws the encapsulated [Throwable] exception\n * if it is [failure][Result.isFailure].\n *\n * This function is a shorthand for `getOrElse { throw it }` (see [getOrElse]).\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <T> Result<T>.getOrThrow(): T {\n throwOnFailure()\n return value as T\n }\n /**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the\n * result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [onFailure] function.\n *\n * This function is a shorthand for `fold(onSuccess = { it }, onFailure = onFailure)` (see [fold]).\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <R, T : R> Result<T>.getOrElse(onFailure: (exception: Throwable) -> R): R {\n contract {\n callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> value as T\n else -> onFailure(exception)\n }\n }\n /**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the\n * [defaultValue] if it is [failure][Result.isFailure].\n *\n * This function is a shorthand for `getOrElse { defaultValue }` (see [getOrElse]).\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <R, T : R> Result<T>.getOrDefault(defaultValue: R): R {\n if (isFailure) return defaultValue\n return value as T\n }\n /**\n * Returns the result of [onSuccess] for the encapsulated value if this instance represents [success][Result.isSuccess]\n * or the result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [onSuccess] or by [onFailure] function.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <R, T> Result<T>.fold(\n onSuccess: (value: T) -> R,\n onFailure: (exception: Throwable) -> R\n): R {\n contract {\n callsInPlace(onSuccess, InvocationKind.AT_MOST_ONCE)\n callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> onSuccess(value as T)\n else -> onFailure(exception)\n }\n }\n /**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated value\n * if this instance represents [success][Result.isSuccess] or the\n * original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n *\n * See [mapCatching] for an alternative that encapsulates exceptions.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <R, T> Result<T>.map(transform: (value: T) -> R): Result<R> {\n contract {\n callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n }\n return when {\n isSuccess -> Result.success(transform(value as T))\n else -> Result(value)\n }\n }\n /**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated value\n * if this instance represents [success][Result.isSuccess] or the\n * original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n *\n * See [map] for an alternative that rethrows exceptions from `transform` function.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {\n return when {\n isSuccess -> runCatching { transform(value as T) }\n else -> Result(value)\n }\n }\n /**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n * if this instance represents [failure][Result.isFailure] or the\n * original encapsulated value if it is [success][Result.isSuccess].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n *\n * See [recoverCatching] for an alternative that encapsulates exceptions.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {\n contract {\n callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> this\n else -> Result.success(transform(exception))\n }\n }\n /**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n * if this instance represents [failure][Result.isFailure] or the\n * original encapsulated value if it is [success][Result.isSuccess].\n *\n * This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n *\n * See [recover] for an alternative that rethrows exceptions.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <R, T : R> Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {\n return when (val exception =

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exceptionOrNull() {\n    null -> this\n    else -> runCatching { transform(exception) }\n } \n} \n \n / / "peek"
onto value/exception and pipe \n \n / / * \n * Performs the given [action] on the encapsulated [Throwable] exception if
this instance represents [failure][Result.isFailure]. \n * Returns the original `Result` unchanged. \n
*/ \n @InlineOnly \n @SinceKotlin("1.3") \n public inline fun <T> Result<T>.onFailure(action: (exception:
Throwable) -> Unit): Result<T> {\n    contract {\n        callsInPlace(action, InvocationKind.AT_MOST_ONCE) \n
} \n    exceptionOrNull()?.let { action(it) } \n    return this \n } \n \n / / * \n * Performs the given [action] on the
encapsulated value if this instance represents [success][Result.isSuccess]. \n * Returns the original `Result`
unchanged. \n */ \n @InlineOnly \n @SinceKotlin("1.3") \n public inline fun <T> Result<T>.onSuccess(action: (value:
T) -> Unit): Result<T> {\n    contract {\n        callsInPlace(action, InvocationKind.AT_MOST_ONCE) \n
} \n    if (isSuccess) action(value as T) \n    return this \n } \n \n / / ----- \n " / * \n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file. \n */ \n \n package kotlin.coroutines \n \n import
kotlin.contracts.* \n import kotlin.coroutines.intrinsics.* \n import kotlin.internal.InlineOnly \n \n / * \n * Interface
representing a continuation after a suspension point that returns a value of type `T`. \n
*/ \n @SinceKotlin("1.3") \n public interface Continuation<in T> {\n    / * \n * The context of the coroutine that
corresponds to this continuation. \n    */ \n    public val context: CoroutineContext \n \n / * \n * Resumes the
execution of the corresponding coroutine passing a successful or failed [result] as the \n    * return value of the last
suspension point. \n    */ \n    public fun resumeWith(result: Result<T>) \n } \n \n / * \n * Classes and interfaces marked
with this annotation are restricted when used as receivers for extension \n * `suspend` functions. These `suspend`
extensions can only invoke other member or extension `suspend` functions on this particular \n * receiver and are
restricted from calling arbitrary suspension functions. \n
*/ \n @SinceKotlin("1.3") \n @Target(AnnotationTarget.CLASS) \n @Retention(AnnotationRetention.BINARY) \n pu
blic annotation class RestrictsSuspension \n \n / * \n * Resumes the execution of the corresponding coroutine passing
[value] as the return value of the last suspension point. \n */ \n @SinceKotlin("1.3") \n @InlineOnly \n public inline
fun <T> Continuation<T>.resume(value: T): Unit = \n    resumeWith(Result.success(value)) \n \n / * \n * Resumes the
execution of the corresponding coroutine so that the [exception] is re-thrown right after the \n * last suspension
point. \n */ \n @SinceKotlin("1.3") \n @InlineOnly \n public inline fun <T>
Continuation<T>.resumeWithException(exception: Throwable): Unit = \n
resumeWith(Result.failure(exception)) \n \n / * \n * Creates a [Continuation] instance with the given [context] and
implementation of [resumeWith] method. \n */ \n @SinceKotlin("1.3") \n @InlineOnly \n public inline fun <T>
Continuation(\n    context: CoroutineContext, \n    crossinline resumeWith: (Result<T>) -> Unit \n ): Continuation<T>
= \n    object : Continuation<T> {\n        override val context: CoroutineContext \n            get() = context \n \n
override fun resumeWith(result: Result<T>) = \n            resumeWith(result) \n    } \n \n / * \n * Creates a coroutine
without a receiver and with result type [T]. \n * This function creates a new, fresh instance of suspendable
computation every time it is invoked. \n * \n * To start executing the created coroutine, invoke `resume(Unit)` on the
returned [Continuation] instance. \n * The [completion] continuation is invoked when the coroutine completes with a
result or an exception. \n * Subsequent invocation of any resume function on the resulting continuation will produce
an [IllegalStateException]. \n */ \n @SinceKotlin("1.3") \n @Suppress("UNCHECKED_CAST") \n public fun <T>
(suspend () -> T).createCoroutine(\n    completion: Continuation<T> \n ): Continuation<Unit> = \n
SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED) \n \n / * \n *
Creates a coroutine with receiver type [R] and result type [T]. \n * This function creates a new, fresh instance of
suspendable computation every time it is invoked. \n * \n * To start executing the created coroutine, invoke
`resume(Unit)` on the returned [Continuation] instance. \n * The [completion] continuation is invoked when the
coroutine completes with a result or an exception. \n * Subsequent invocation of any resume function on the resulting
continuation will produce an [IllegalStateException]. \n
*/ \n @SinceKotlin("1.3") \n @Suppress("UNCHECKED_CAST") \n public fun <R, T> (suspend R.() ->
T).createCoroutine(\n    receiver: R, \n    completion: Continuation<T> \n ): Continuation<Unit> = \n
SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(),

```

COROUTINE_SUSPENDED)\n\n/**\n * Starts a coroutine without a receiver and with result type [T].\n * This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n\n */\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <T> (suspend () -> T).startCoroutine(\n completion: Continuation<T>)\n) {\n createCoroutineUnintercepted(completion).intercepted().resume(Unit)\n}\n\n/**\n * Starts a coroutine with receiver type [R] and result type [T].\n * This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n\n */\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <R, T> (suspend R.() -> T).startCoroutine(\n receiver: R,\n completion: Continuation<T>)\n) {\n createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\n}\n\n/**\n * Obtains the current continuation instance inside suspend functions and suspends\n * the currently running coroutine.\n * In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously in\n * the same stack-frame where the suspension function is run or asynchronously later in the same thread or\n * from a different thread of execution. Subsequent invocation of any resume function will produce an [IllegalStateException].\n\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic suspend inline fun <T>\n suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T {\n contract { callsInPlace(block, InvocationKind.EXACTLY_ONCE) }\n return suspendCoroutineUninterceptedOrReturn { c: Continuation<T> ->\n val safe = SafeContinuation(c.intercepted())\n block(safe)\n safe.getOrThrow()\n }\n}\n\n/**\n * Returns the context of the current coroutine.\n\n */\n@SinceKotlin("1.3")\n@Suppress("WRONG_MODIFIER_TARGET")\n@InlineOnly\npublic suspend inline val coroutineContext: CoroutineContext\n get() {\n throw NotImplementedError("Implemented as intrinsic")\n }\n\n} /* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n */\n\npackage kotlin.coroutines.intrinsics\n\nimport kotlin.coroutines.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Starts an unintercepted coroutine without a receiver and with result type [T] and executes it until its first suspension.\n * Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.\n * The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\n * be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\n * context is established.\n\n */\n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\n * coroutine using a reference to the suspending function.\n\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic actual inline fun <T> (suspend () -> T).startCoroutineUninterceptedOrReturn(\n completion: Continuation<T>)\n): Any? = this.asDynamic()(completion, false)\n\n/**\n * Starts an unintercepted coroutine with receiver type [R] and result type [T] and executes it until its first suspension.\n * Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.\n * The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\n * be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\n * context is established.\n\n */\n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\n * coroutine using a reference to the suspending function.\n\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic actual inline fun <R, T> (suspend R.() -> T).startCoroutineUninterceptedOrReturn(\n receiver: R,\n completion: Continuation<T>)\n): Any? = this.asDynamic()(receiver, completion, false)\n\n@SinceKotlin("1.3")\n@InlineOnly\ninternal actual inline fun <R, P, T> (suspend R.(P) -> T).startCoroutineUninterceptedOrReturn(\n receiver: R,\n param: P,\n completion: Continuation<T>)\n): Any? = this.asDynamic()(receiver, param, completion, false)\n\n/**\n * Creates unintercepted coroutine without

receiver and with result type [T].
 * This function creates a new, fresh instance of suspendable computation every time it is invoked.
 * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.
 * The [completion] continuation is invoked when coroutine completes with result or exception.
 * This function returns unintercepted continuation.
 * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].
 * It is the invoker's responsibility to ensure that a proper invocation context is established.
 * Note that [completion] of this function may get invoked in an arbitrary context.
 * [Continuation.intercepted] can be used to acquire the intercepted continuation.
 * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of both the coroutine and [completion] happens in the invocation context established by [ContinuationInterceptor].
 * Repeated invocation of any resume function on the resulting continuation corrupts the state machine of the coroutine and may result in arbitrary behaviour or exception.

```

^@SinceKotlin("1.3")
public actual fun <T> (suspend () -> T).createCoroutineUnintercepted(
  completion: Continuation<T>): Continuation<Unit> =
  // Kotlin/JS suspend lambdas have an extra parameter `suspended`
  if (this.asDynamic().length == 2) {
    // When `suspended` is true the continuation is created, but not executed
    this.asDynamic()(completion, true)
  } else {
    createCoroutineFromSuspendFunction(completion) {
      this.asDynamic()(completion)
    }
  }

```

* Creates unintercepted coroutine with receiver type [R] and result type [T].
 * This function creates a new, fresh instance of suspendable computation every time it is invoked.
 * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.
 * The [completion] continuation is invoked when coroutine completes with result or exception.
 * This function returns unintercepted continuation.
 * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].
 * It is the invoker's responsibility to ensure that a proper invocation context is established.
 * Note that [completion] of this function may get invoked in an arbitrary context.
 * [Continuation.intercepted] can be used to acquire the intercepted continuation.
 * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of both the coroutine and [completion] happens in the invocation context established by [ContinuationInterceptor].
 * Repeated invocation of any resume function on the resulting continuation corrupts the state machine of the coroutine and may result in arbitrary behaviour or exception.

```

^@SinceKotlin("1.3")
public actual fun <R, T> (suspend R.() -> T).createCoroutineUnintercepted(
  receiver: R, completion: Continuation<T>): Continuation<Unit> =
  // Kotlin/JS suspend lambdas have an extra parameter `suspended`
  if (this.asDynamic().length == 3) {
    // When `suspended` is true the continuation is created, but not executed
    this.asDynamic()(receiver, completion, true)
  } else {
    createCoroutineFromSuspendFunction(completion) {
      this.asDynamic()(receiver, completion)
    }
  }

```

* Intercepts this continuation with [ContinuationInterceptor].
 * This function shall be used on the immediate result of [createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn], in which case it checks for [ContinuationInterceptor] in the continuation's [context][Continuation.context], invokes [ContinuationInterceptor.interceptContinuation], caches and returns the result.
 * If this function is invoked on other [Continuation] instances it returns `this` continuation unchanged.

```

^@SinceKotlin("1.3")
public actual fun <T> Continuation<T>.intercepted(): Continuation<T> =
  (this as? CoroutineImpl)?.intercepted() ?:
  this

```

```

private inline fun <T> createCoroutineFromSuspendFunction(
  completion: Continuation<T>,
  crossinline block: () -> Any?): Continuation<Unit> {
  @Suppress("UNCHECKED_CAST")
  return object : CoroutineImpl(completion as Continuation<Any?>) {
    override fun doResume(): Any? {
      exception?.let { throw it }
      return block()
    }
  }
}

```

* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 * package kotlin.js
 * Mirrors signature from JS IR BE
 * Used for
 js.translator/testData/box/number/mulInt32.kt
 @library
 @JsName("imulEmulated")
 @Suppress("UNUSED_PARAMETER")
 internal fun imul(x: Int, y: Int): Int =

```

definedExternally\n\n@Suppress("\NOTHING_TO_INLINE")\ninternal inline fun isArrayish(o: dynamic) =
js("\Kotlin").isArrayish(o)\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\n// NOTE: Do not author your exceptions as they are written in
this file, instead use this template:\n\npublic open class MyException : Exception {\n    constructor() : super()\n    constructor(message: String?) : super(message)\n    constructor(message: String?, cause: Throwable?) :
super(message, cause)\n    constructor(cause: Throwable?) : super(cause)\n}\n\n// TODO: remove primary
constructors, make all secondary\n\n@Suppress("\USELESS_ELVIS_RIGHT_IS_NULL")\npublic
actual open class Error actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null)
{\n    actual constructor() : this(null, null)\n    actual constructor(message: String?) : this(message, null)\n    actual
constructor(cause: Throwable?) : this(undefin
cause)\n}\n\n@Suppress("\USELESS_ELVIS_RIGHT_IS_NULL")\npublic actual open class Exception actual
constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\n    actual constructor() :
this(null, null)\n    actual constructor(message: String?) : this(message, null)\n    actual constructor(cause:
Throwable?) : this(undefin, cause)\n}\n\npublic actual open class RuntimeException actual constructor(message:
String?, cause: Throwable?) : Exception(message, cause) {\n    actual constructor() : this(null, null)\n    actual
constructor(message: String?) : this(message, null)\n    actual constructor(cause: Throwable?) : this(undefin,
cause)\n}\n\npublic actual open class IllegalArgumentException actual constructor(message: String?, cause:
Throwable?) : RuntimeException(message, cause) {\n    actual constructor() : this(null, null)\n    actual
constructor(message: String?) : this(message, null)\n    actual constructor(cause: Throwable?) : this(undefin,
cause)\n}\n\npublic actual open class IllegalStateException actual constructor(message: String?, cause: Throwable?)
: RuntimeException(message, cause) {\n    actual constructor() : this(null, null)\n    actual constructor(message:
String?) : this(message, null)\n    actual constructor(cause: Throwable?) : this(undefin, cause)\n}\n\npublic actual
open class IndexOutOfBoundsException actual constructor(message: String?) : RuntimeException(message) {\n
actual constructor() : this(null)\n}\n\npublic actual open class ConcurrentModificationException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n    actual constructor() :
this(null, null)\n    actual constructor(message: String?) : this(message, null)\n    actual constructor(cause:
Throwable?) : this(undefin, cause)\n}\n\npublic actual open class UnsupportedOperationException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n    actual constructor() :
this(null, null)\n    actual constructor(message: String?) : this(message, null)\n    actual constructor(cause:
Throwable?) : this(undefin, cause)\n}\n\n\npublic actual open class NumberFormatException actual
constructor(message: String?) : IllegalArgumentException(message) {\n    actual constructor() :
this(null)\n}\n\n\npublic actual open class NullPointerException actual constructor(message: String?) :
RuntimeException(message) {\n    actual constructor() : this(null)\n}\n\n\npublic actual open class
ClassCastException actual constructor(message: String?) : RuntimeException(message) {\n    actual constructor() :
this(null)\n}\n\n\npublic actual open class AssertionError\n@SinceKotlin("1.4")\nconstructor(message: String?,
cause: Throwable?) : Error(message, cause) {\n    actual constructor() : this(null)\n    constructor(message: String?) :
this(message, null)\n    actual constructor(message: Any?) : this(message.toString(), message as?
Throwable)\n}\n\n\npublic actual open class NoSuchElementException actual constructor(message: String?) :
RuntimeException(message) {\n    actual constructor() : this(null)\n}\n\n\n@SinceKotlin("1.3")\npublic actual open
class ArithmeticException actual constructor(message: String?) : RuntimeException(message) {\n    actual
constructor() : this(null)\n}\n\n\npublic actual open class NoWhenBranchMatchedException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n    actual constructor() :
this(null, null)\n    actual constructor(message: String?) : this(message, null)\n    actual constructor(cause:
Throwable?) : this(undefin, cause)\n}\n\n\npublic actual open class UninitializedPropertyAccessException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n    actual constructor() :
this(null, null)\n    actual constructor(message: String?) : this(message, null)\n    actual constructor(cause:
Throwable?) : this(undefin, cause)\n}\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. Use of this source code is

```

```

governed by the Apache 2.0 license\n * that can be found in the license/LICENSE.txt file.\n
*\n\n@file:Suppress(\\"UNUSED_PARAMETER\\")\n\npackage kotlin.js\n\n@kotlin.internal.InlineOnly\n\ninternal inline fun jsDeleteProperty(obj: Any, property: Any) {\n    js(\\"delete\nobj[property]\\")\n}\n\n@kotlin.internal.InlineOnly\n\ninternal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =\njs(\\"lhs | rhs\\").unsafeCast<Int>()\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language\ncontributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\nlicense/LICENSE.txt file.\n */\n\npackage kotlin.math\n\n/**\n * Returns this value with the sign bit same as of the\n[sign] value.\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n\n@SinceKotlin("1.2")\n\npublic actual fun Double.withSign(sign: Double): Double {\n    val thisSignBit =\njs(\\"Kotlin\\").doubleSignBit(this).unsafeCast<Int>()\n    val newSignBit =\njs(\\"Kotlin\\").doubleSignBit(sign).unsafeCast<Int>()\n    return if (thisSignBit == newSignBit) this else -\nthis\n}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point \\\"double format\\\" bit layout.\n */\n\n@SinceKotlin("1.2")\n\n@library(\\"doubleToBits\\")\n\npublic actual fun Double.toBits(): Long =\ndefinedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point \\\"double format\\\" bit layout,\n * preserving `NaN` values exact layout.\n */\n\n@SinceKotlin("1.2")\n\n@library(\\"doubleToRawBits\\")\n\npublic actual fun Double.toRawBits(): Long =\ndefinedExternally\n\n/**\n * Returns the [Double] value corresponding to a given bit representation.\n */\n\n@SinceKotlin("1.2")\n\n@kotlin.internal.InlineOnly\n\npublic actual inline fun Double.Companion.fromBits(bits:\nLong): Double = js(\\"Kotlin\\").doubleFromBits(bits).unsafeCast<Double>()\n\n/**\n * Returns a bit representation\nof the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point \\\"single format\\\" bit\nlayout.\n * Note that in Kotlin/JS [Float] range is wider than \\\"single format\\\" bit layout can represent,\n * so\nsome [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n */\n\n@SinceKotlin("1.2")\n\n@library(\\"floatToBits\\")\n\npublic actual fun Float.toBits(): Int =\ndefinedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Int]\n * according\nto the IEEE 754 floating-point \\\"single format\\\" bit layout,\n * preserving `NaN` values exact layout.\n * Note\nthat in Kotlin/JS [Float] range is wider than \\\"single format\\\" bit layout can represent,\n * so\nsome [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n */\n\n@SinceKotlin("1.2")\n\n@library(\\"floatToRawBits\\")\n\npublic actual fun Float.toRawBits(): Int =\ndefinedExternally\n\n/**\n * Returns the [Float] value corresponding to a given bit representation.\n */\n\n@SinceKotlin("1.2")\n\n@kotlin.internal.InlineOnly\n\npublic actual inline fun Float.Companion.fromBits(bits:\nInt): Float =\njs(\\"Kotlin\\").floatFromBits(bits).unsafeCast<Float>()\n\n\n@Suppress(\\"NOTHING_TO_INLINE\\")\n\ninternal inline fun Long(low: Int, high: Int) = js(\\"Kotlin\\").Long.fromBits(low, high).unsafeCast<Long>()\n\ninternal inline val Long.low: Int get() = this.asDynamic().getLowBits().unsafeCast<Int>()\n\ninternal inline val Long.high: Int get()\n= this.asDynamic().getHighBits().unsafeCast<Int>()\n\n/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin\nProgramming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\nfound in the license/LICENSE.txt file.\n */\n\nimport kotlin.reflect.KClass\n\n@PublishedApi\n\ninternal fun <T : Annotation> KClass<*>.findAssociatedObject(@Suppress(\\"UNUSED_PARAMETER\\") annotationClass:\nKClass<T>): Any? {\n    // This API is not supported in js-v1. Return `null` to be source-compatible with js-ir.\n    return null\n}\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Long] value in the specified [radix].\n * \n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n\n@SinceKotlin("1.2")\n\npublic actual fun Long.toString(radix: Int): String =\nasDynamic().toString(checkRadix(radix))\n\n/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming

```



```

https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\n// 222 ranges totally\nprivate object Letter {\n
val decodedRangeStart: IntArray\n val decodedRangeLength: IntArray\n val decodedRangeCategory: IntArray\n
\n init {\n val toBase64 =
\n"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/\n val fromBase64 =
IntArray(128)\n for (i in toBase64.indices) {\n fromBase64[toBase64[i].code] = i\n }\n \n //
rangeStartDiff.length = 356\n val rangeStartDiff =
\n"hCgBpCQGYHZH5BRpBPPPPPRMP5BPPICPP6BkEPPPPcPXPzBvBrB3BOiDoBHwD+E3DauCnFmBmB2D
6E1BIBTiBmBIBP5BhBiBrBvBjBqBnBPRtBiCmCtBlB0BmB5BiB7BmBgEmChBzGCoEoGVpBSfRhBPqKQ2B
wBYoFgB4CJuTiEvBuCuDrF5DgEgFIJ1DgFmBQtBsBRGsB+BPiBID1EIjDPRPPPPPPPPGQSQS/DxENVNU+
B9zCwBwBPPCkDPNnBPqDYY1R8B7FkFgTgwGgwUwmBgKwBuBScmEP/BPPPPPRpB8B7F1B/ErBqC6B7B
iBmBfQsBUwCw/KwqIwLwETPcPjQgJxFgB1BsD\n val diff = decodeVarLenBase64(rangeStartDiff,
fromBase64, 222)\n val start = IntArray(diff.size)\n for (i in diff.indices) {\n if (i == 0) start[i] =
diff[i]\n else start[i] = start[i - 1] + diff[i]\n }\n decodedRangeStart = start\n \n //
rangeLength.length = 328\n val rangeLength =
\n"aaMBXHYH5BRpBPPPPPRMP5BPPICPPzBDOOPPcPXPzBvBjB3BOhDmBBpB7DoDYxB+EiBP1DoExBkB
QhBekBPmBgBhBctBiBMWOOXhCsBpBkBUV3Ba4BkB0DICgBXgBtD4FSdBfPhBPpKP0BvBxJEQ2CGsT8Dh
BtCqDpFvD1D3E0IrD2EkBjRBDObSb+BPiBIB1EIjDPPPPPPPPPPGPPMNLsBNPNPKCvBvBPPCkDPBmBPh
DXXgD4B6FzEgDguG9vUtkB9JcuBSckEP/BPPPPPPBPf4FrBjEhBpC3B5BKaWPrBOWck/KsCuLqDHPbPxPsFt
EaaqDL\n decodedRangeLength = decodeVarLenBase64(rangeLength, fromBase64, 222)\n \n //
rangeCategory.length = 959\n val rangeCategory =
\n"GFjgggUHGFFZZZmzpz5qB6s6020B60ptltB6smt2sB60mz22B1+vv+8BZZ5s2850BW5q1ymtB506smzBF3q1
q1qB1q1q1+Bgi4wDTm74g3KigxqM60q1q1Bq1o1q1BF1qlrqrBZ2q5wprBGFZWWZGHFsjiioLowgmOowjkw
CkgoiIk7ligGogioBkwkiYkzj2oNoi+sbkwj04DghhkQ8wgiYkgoioDsgnkwC4gikQ//v+85BkwvoIsgoyI4ygu0whiw
Eowri4CoghsJowgqYowgm4DkwgsY/nwnzPowhmYkg6wI8yggZswikwHgxgmIoxgqYkwwgk4DkxgmIkgoioBsgsso
BgzgyI8g9gL8g9ki0wgwJoxgkoC0wgioFkw/wI0w53iF4gioYowjmgBHGq1qkgwBF1q1q8qBHwghuIwghyKk0go
QkwgoQk3goQHGFHkyg0pBgxj6IoinkxDswno7Ikwhz9Bo0gioB8z48Rwli0xN0mpjoX8w78pDwltoqKHFGGwwg
siHFH3q1q16BFHWFZ1q10q1B2q1wq1B1q10q1B2q1yq1B6q1gq1Biq1qhxBir1qp1Bqt1q1qB1g1q1+B//3q16B//q
1qBH/qlq9Bholqq9B1i00a1q10qD1op1HkwmigEigiy6Cptogq1Bixo1kDq7/j00B2qgoBWGFm1lz50B6s5q1+BG
WhggzhwBFFhgk4//Bo2jigE8wguI8wguI8wguUog1qoB4qjmIwwi2KgkYHHH4IBgiFWkgIWoghssMmz5smrBZ
3q1y50B5sm7gzBtz1smzB5smz50BqzqtmzB5sgzqzBF2/9//5BowgoIwmnkzPkwgk4C8ys65BkgoqI0wgy6FghquZo
2giY0ghiIshg24B4ghsQ8QF/v1q1OFs0O8iCHHF1qggz/B8wg6Iznv+//B08QgohsjK0QGfK7hsQ4gB\n
decodedRangeCategory = decodeVarLenBase64(rangeCategory, fromBase64, 222)\n }\n}\n\n/**\n * Returns
`true` if this character is a letter.\n */\ninternal fun Char.isLetterImpl(): Boolean {\n return getLetterType() !=
0\n}\n\n/**\n * Returns `true` if this character is a lower case letter, or it has contributory property
Other_Lowercase.\n */\ninternal fun Char.isLowerCaseImpl(): Boolean {\n return getLetterType() == 1 ||
code.isOtherLowercase()\n}\n\n/**\n * Returns `true` if this character is an upper case letter, or it has contributory
property Other_Uppercase.\n */\ninternal fun Char.isUpperCaseImpl(): Boolean {\n return getLetterType() == 2 ||
code.isOtherUppercase()\n}\n\n/**\n * Returns\n * - `1` if the character is a lower case letter,\n * - `2` if the
character is an upper case letter,\n * - `3` if the character is a letter but not a lower or upper case letter,\n * - `0`
otherwise.\n */\nprivate fun Char.getLetterType(): Int {\n val ch = this.code\n val index =
binarySearchRange(Letter.decodedRangeStart, ch)\n val rangeStart = Letter.decodedRangeStart[index]\n val
rangeEnd = rangeStart + Letter.decodedRangeLength[index] - 1\n val code =
Letter.decodedRangeCategory[index]\n\n if (ch > rangeEnd) {\n return 0\n }\n\n val lastTwoBits = code
and 0x3\n\n if (lastTwoBits == 0) { // gap pattern\n var shift = 2\n var threshold = rangeStart\n for (i
in 0..1) {\n threshold += (code shr shift) and 0x7f\n if (threshold > ch) {\n return 3\n
}\n shift += 7\n threshold += (code shr shift) and 0x7f\n if (threshold > ch) {\n return
0\n }\n shift += 7\n }\n return 3\n }\n\n if (code <= 0x7) {\n return lastTwoBits\n
}\n\n val distance = (ch - rangeStart)\n val shift = if (code <= 0x1F) distance % 2 else distance\n return (code

```

```

shr (2 * shift)) and 0x3\n}\n\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the
GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nprivate object
OtherLowercase {\n    internal val otherLowerStart = intArrayOf(\n        0x00aa, 0x00ba, 0x02b0, 0x02c0, 0x02e0,
0x0345, 0x037a, 0x1d2c, 0x1d78, 0x1d9b, 0x2071, 0x207f, 0x2090, 0x2170, 0x24d0, 0x2c7c, 0xa69c, 0xa770,
0xa7f8, 0xab5c, \n    )\n    internal val otherLowerLength = intArrayOf(\n        1, 1, 9, 2, 5, 1, 1, 63, 1, 37, 1, 1, 13,
16, 26, 2, 2, 1, 2, 4, \n    )\n}\n\ninternal fun Int.isOtherLowercase(): Boolean {\n    val index =
binarySearchRange(OtherLowercase.otherLowerStart, this)\n    return index >= 0 && this <
OtherLowercase.otherLowerStart[index] + OtherLowercase.otherLowerLength[index]\n}\n\n", "/*\n * Copyright
2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/\n//
NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\ninternal fun Int.isOtherUppercase(): Boolean
{\n    return this in 0x2160..0x216f\n        || this in 0x24b6..0x24cf\n}\n\n", "/*\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/\n// NOTE: THIS FILE IS
AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.js.*\n\n/**\n * Returns a
character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char
sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun
CharSequence.elementAt(index: Int): Char {\n    return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, length: $length") }\n}\n\n", "/*\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/\n// NOTE: THIS FILE IS
AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\n// 4 ranges totally\n\ninternal fun
Char.titlecaseCharImpl(): Char {\n    val code = this.code\n    // Letters repeating <Lu, Lt, Ll> sequence and code of
the Lt is a multiple of 3, e.g. <\u01c4, \u01c5, \u01c6>\n    if (code in 0x01c4..0x01cc || code in 0x01f1..0x01f3) {\n
return (3 * ((code + 1) / 3)).toChar()\n    }\n    // Lower case letters whose title case mapping equivalent is equal
to the original letter\n    if (code in 0x10d0..0x10fa || code in 0x10fd..0x10ff) {\n        return this\n    }\n    return
uppercaseChar()\n}\n\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED
by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport
kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.elementAt(index: Int):
UInt {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.elementAt(index: Int):
ULong {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.elementAt(index: Int):
UByte {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n}

```

```

}\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.elementAt(index: Int):
UShort {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")}\
}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.asList(): List<UInt> {\n
return object : AbstractList<UInt>(), RandomAccess {\n    override val size: Int get() = this@asList.size\n
override fun isEmpty(): Boolean = this@asList.isEmpty()\n    override fun contains(element: UInt): Boolean =
this@asList.contains(element)\n    override fun get(index: Int): UInt {\n
AbstractList.checkElementIndex(index, size)\n        return this@asList[index]\n    }\n    override fun
indexOf(element: UInt): Int {\n        @Suppress("USELESS_CAST")\n        if ((element as Any?) !is UInt)
return -1\n        return this@asList.indexOf(element)\n    }\n    override fun lastIndexOf(element: UInt): Int
{\n        @Suppress("USELESS_CAST")\n        if ((element as Any?) !is UInt) return -1\n        return
this@asList.lastIndexOf(element)\n    }\n}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.asList(): List<ULong>
{\n    return object : AbstractList<ULong>(), RandomAccess {\n    override val size: Int get() = this@asList.size\n
override fun isEmpty(): Boolean = this@asList.isEmpty()\n    override fun contains(element: ULong):
Boolean = this@asList.contains(element)\n    override fun get(index: Int): ULong {\n
AbstractList.checkElementIndex(index, size)\n        return this@asList[index]\n    }\n    override fun
indexOf(element: ULong): Int {\n        @Suppress("USELESS_CAST")\n        if ((element as Any?) !is
ULong) return -1\n        return this@asList.indexOf(element)\n    }\n    override fun lastIndexOf(element:
ULong): Int {\n        @Suppress("USELESS_CAST")\n        if ((element as Any?) !is ULong) return -1\n
return this@asList.lastIndexOf(element)\n    }\n}\n}\n\n/**\n * Returns a [List] that wraps the original
array.\n * \n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.asList():
List<UByte> {\n    return object : AbstractList<UByte>(), RandomAccess {\n    override val size: Int get() =
this@asList.size\n    override fun isEmpty(): Boolean = this@asList.isEmpty()\n    override fun
contains(element: UByte): Boolean = this@asList.contains(element)\n    override fun get(index: Int): UByte {\n
AbstractList.checkElementIndex(index, size)\n        return this@asList[index]\n    }\n    override fun
indexOf(element: UByte): Int {\n        @Suppress("USELESS_CAST")\n        if ((element as Any?) !is
UByte) return -1\n        return this@asList.indexOf(element)\n    }\n    override fun lastIndexOf(element:
UByte): Int {\n        @Suppress("USELESS_CAST")\n        if ((element as Any?) !is UByte) return -1\n
return this@asList.lastIndexOf(element)\n    }\n}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.asList(): List<UShort>
{\n    return object : AbstractList<UShort>(), RandomAccess {\n    override val size: Int get() = this@asList.size\n
override fun isEmpty(): Boolean = this@asList.isEmpty()\n    override fun contains(element: UShort):
Boolean = this@asList.contains(element)\n    override fun get(index: Int): UShort {\n
AbstractList.checkElementIndex(index, size)\n        return this@asList[index]\n    }\n    override fun
indexOf(element: UShort): Int {\n        @Suppress("USELESS_CAST")\n        if ((element as Any?) !is
UShort) return -1\n        return this@asList.indexOf(element)\n    }\n    override fun lastIndexOf(element:
UShort): Int {\n        @Suppress("USELESS_CAST")\n        if ((element as Any?) !is UShort) return -1\n
return this@asList.lastIndexOf(element)\n    }\n}\n}\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n// NOTE: THIS FILE IS AUTO-
GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n// 9 ranges totally\n/**\n * Returns `true` if this
character is a whitespace.\n * \n*\ninternal fun Char.isWhitespaceImpl(): Boolean {\n    val ch = this.code\n    return ch
in 0x0009..0x000d\n        || ch in 0x001c..0x0020\n        || ch == 0x00a0\n        || ch > 0x1000 && (\n
ch == 0x1680\n        || ch in 0x2000..0x200a\n        || ch == 0x2028\n        || ch == 0x2029\n

```

```

|| ch == 0x202f\n      || ch == 0x205f\n      || ch == 0x3000\n      )\n}\n", /*\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\npublic actual fun
interface Comparator<T> {\n    @JsName("compare")\n    public actual fun compare(a: T, b: T): Int\n}\n", /*\n *
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.js\n\nimport kotlin.annotation.AnnotationTarget.*\n\n@Target(FUNCTION)\n@Deprecated("Use inline
extension function with body using dynamic")\npublic annotation class
nativeGetter\n\n@Target(FUNCTION)\n@Deprecated("Use inline extension function with body using
dynamic")\npublic annotation class nativeSetter\n\n@Target(FUNCTION)\n@Deprecated("Use inline extension
function with body using dynamic")\npublic annotation class nativeInvoke\n\n@Target(CLASS, FUNCTION,
PROPERTY)\n\ninternal annotation class library(public val name: String = "")\n\n@Target(CLASS)\n\ninternal
annotation class marker\n\n\n/**\n * Gives a declaration (a function, a property or a class) specific name in
JavaScript.\n *\n * This may be useful in the following cases:\n *\n * * There are two functions for which the
compiler gives same name in JavaScript, you can\n *   mark one with `@JsName(...)` to prevent the compiler from
reporting error.\n *\n * * You are writing a JavaScript library in Kotlin. The compiler produces mangled names\n *
for functions with parameters, which is unnatural for usual JavaScript developer.\n *   You can put `@JsName(...)`
on functions you want to be available from JavaScript.\n *\n * * For some reason you want to rename declaration, e.g.
there's common term in JavaScript\n *   for a concept provided by the declaration, which is uncommon in Kotlin.\n
*\n * Example:\n *\n * ``` kotlin\n * class Person(val name: String) {\n *     fun hello() {\n *         println("Hello
$name!")\n *     }\n *     @JsName("helloWithGreeting")\n *     fun hello(greeting: String) {\n *
println("$greeting $name!")\n *     }\n * }\n * ```\n *\n * @property name the name which compiler uses both for
declaration itself and for all references to the declaration.\n *\n *     It's required to denote a valid JavaScript
identifier.\n *\n */\n\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, FUNCTION, PROPERTY,
CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\n\npublic actual annotation class JsName(actual
val name: String)\n\n\n/**\n * Denotes an `external` declaration that must be imported from native JavaScript
library.\n *\n * The compiler produces the code relevant for the target module system, for example, in case of
CommonJS,\n * it will import the declaration via the `require(...)` function.\n *\n * The annotation can be used on
top-level external declarations (classes, properties, functions) and files.\n * In case of file (which can't be `external`
) the following rule applies: all the declarations in\n * the file must be `external`. By applying `@JsModule(...)`
on a file you tell the compiler to import a JavaScript object\n * that contain all the declarations from the file.\n
*\n * Example:\n *\n * ``` kotlin\n * @JsModule("jquery")\n * external abstract class JQuery() {\n *     // some
declarations here\n * }\n * @JsModule("jquery")\n * external fun JQuery(element: Element): JQuery\n * ```\n
*\n * @property import name of a module to import declaration from.\n *\n *     It is not interpreted by the Kotlin
compiler, it's passed as is directly to the target module system.\n *\n * @see JsNonModule\n
*/\n\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\n\npublic
annotation class JsModule(val import: String)\n\n\n/**\n * Denotes an `external` declaration that can be used without
module system.\n *\n * By default, an `external` declaration is available regardless your target module system.\n *
However, by applying [JsModule] annotation you can make a declaration unavailable to *plain* module system.\n *
Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module
available\n * as an npm package.\n * To tell the Kotlin compiler to accept both cases, you can augment [JsModule]
with the `@JsNonModule` annotation.\n *\n * For example:\n *\n * ``` kotlin\n * @JsModule("jquery")\n *
@JsNonModule\n * @JsName("$")\n * external abstract class JQuery() {\n *     // some declarations here\n * }\n
*\n * @JsModule("jquery")\n * @JsNonModule\n * @JsName("$")\n * external fun JQuery(element: Element):
JQuery\n * ```\n *\n * @see JsModule\n */\n\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS,
PROPERTY, FUNCTION, FILE)\n\npublic annotation class JsNonModule\n\n\n/**\n * Adds prefix to `external`
declarations in a source file.\n *\n * JavaScript does not have concept of packages (namespaces). They are usually
emulated by nested objects.\n * The compiler turns references to `external` declarations either to plain unprefixed

```

names (in case of `*plain*` modules) or to plain imports. However, if a JavaScript library provides its declarations in packages, you won't be satisfied with this. You can tell the compiler to generate additional prefix before references to ``external`` declarations using the ``@JsQualifier(...)`` annotation. Note that a file marked with the ``@JsQualifier(...)`` annotation can't contain non-``external`` declarations. Example:

```

@file:JsQualifier("my.jsPackageName") package some.kotlinPackage
external fun foo(x: Int)
external fun bar(): String
@property value the qualifier to add to the declarations in the
generated code

```

It must be a sequence of valid JavaScript identifiers separated by the ``.`` character. Examples of valid qualifiers are: ``foo``, ``bar.Baz``, ``_.$0.f``.

`@see JsModule`

```

@Retention(AnnotationRetention.BINARY)
@Target(AnnotationTarget.FILE)
public annotation class
JsQualifier(val value: String)
Exports top-level declaration on JS platform.
Compiled module
exposes declarations that are marked with this annotation without name mangling.
This annotation can be
applied to either files or top-level declarations.
It is currently prohibited to export the following kinds of
declarations:
* `expect` declarations
* inline functions with reified type parameters
* suspend
functions
* secondary constructors without `@JsName`
* extension properties
* enum classes
*
annotation classes
Signatures of exported declarations must only contain "exportable" types:
*
`dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`
* `BooleanArray`, `ByteArray`,
`ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`
* `Array<exportable-type>`
* Function types with
exportable parameters and return types
* `external` or `@JsExport` classes and interfaces
* Nullable
counterparts of types above
* Unit return type. Must not be nullable
This annotation is experimental,
meaning that restrictions mentioned above are subject to change.

```

```

@ExperimentalJsExport
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY,
FUNCTION, FILE)
@SinceKotlin("1.3")
public actual annotation class JsExport
"/
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2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
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Apache 2.0 license that can be found in the license/LICENSE.txt file.
package kotlin.jvm
// these are
used in common generated code in stdlib
// TODO: find how to deprecate these

```

```

@Target(AnnotationTarget.FIELD)
@Retention(AnnotationRetention.SOURCE)
public actual
annotation class Volatile
@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER,
AnnotationTarget.PROPERTY_SETTER)
@Retention(AnnotationRetention.SOURCE)
public actual annotation
class Synchronized
"/
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contributors.
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license/LICENSE.txt file.
package kotlin.collections
/**
Provides a skeletal implementation of the
[MutableCollection] interface.
@param E the type of elements contained in the collection. The collection is
invariant in its element type.
public actual abstract class AbstractMutableCollection<E> protected actual
constructor() : AbstractCollection<E>(), MutableCollection<E> {
actual abstract override fun add(element: E):
Boolean
actual override fun remove(element: E): Boolean {
checkIsMutable()
val iterator =
iterator()
while (iterator.hasNext()) {
if (iterator.next() == element) {
iterator.remove()
return true
}
}
return false
}
actual override fun addAll(elements:
Collection<E>): Boolean {
checkIsMutable()
var modified = false
for (element in elements) {
if (add(element)) modified = true
}
return modified
}
actual override fun
removeAll(elements: Collection<E>): Boolean {
checkIsMutable()
return (this as
MutableIterable<E>).removeAll { it in elements }
}
actual override fun retainAll(elements:
Collection<E>): Boolean {
checkIsMutable()
return (this as MutableIterable<E>).removeAll { it !in
elements }
}
actual override fun clear(): Unit {
checkIsMutable()
val iterator = this.iterator()
while (iterator.hasNext()) {
iterator.next()
iterator.remove()
}
}
}
@Deprecated("Provided so that subclasses inherit this function", level = DeprecationLevel.HIDDEN)
@JsName("toJSON")
protected fun toJSON(): Any = this.toArray()
/**
This method is called
every time when a mutating method is called on this mutable collection.
Mutable collections that are built
(frozen) must throw `UnsupportedOperationException`.
internal open fun checkIsMutable(): Unit {

```

```

}\n}\n\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n * Based on GWT AbstractList\n * Copyright 2007 Google Inc.\n*/\n\npackage
kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableList] interface.\n * \n * @param E
the type of elements contained in the list. The list is invariant in its element type.\n */\n\npublic actual abstract class
AbstractMutableList<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableList<E> {\n
protected var modCount: Int = 0\n\n abstract override fun add(index: Int, element: E): Unit\n abstract override
fun removeAt(index: Int): E\n abstract override fun set(index: Int, element: E): E\n\n /**\n * Adds the
specified element to the end of this list.\n * \n * @return `true` because the list is always modified as the result
of this operation.\n */\n\n actual override fun add(element: E): Boolean {\n checkIsMutable()\n add(size,
element)\n return true\n }\n\n actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n
AbstractList.checkPositionIndex(index, size)\n\n checkIsMutable()\n var _index = index\n var
changed = false\n for (e in elements) {\n add(_index++, e)\n changed = true\n }\n return
changed\n }\n\n actual override fun clear() {\n checkIsMutable()\n removeRange(0, size)\n }\n\n
actual override fun removeAll(elements: Collection<E>): Boolean {\n checkIsMutable()\n return
removeAll { it in elements }\n }\n\n actual override fun retainAll(elements: Collection<E>): Boolean {\n
checkIsMutable()\n return removeAll { it !in elements }\n }\n\n\n actual override fun iterator():
MutableIterator<E> = IteratorImpl()\n\n actual override fun contains(element: E): Boolean = indexOf(element) >=
0\n\n actual override fun indexOf(element: E): Int {\n for (index in 0..lastIndex) {\n if (get(index) ==
element) {\n return index\n }\n }\n return -1\n }\n\n actual override fun
lastIndexOf(element: E): Int {\n for (index in lastIndex downTo 0) {\n if (get(index) == element) {\n
return index\n }\n }\n return -1\n }\n\n\n actual override fun listIterator():
MutableListIterator<E> = listIterator(0)\n\n actual override fun listIterator(index: Int): MutableListIterator<E> =
ListIteratorImpl(index)\n\n\n actual override fun subList(fromIndex: Int, toIndex: Int): MutableList<E> =
SubList(this, fromIndex, toIndex)\n\n /**\n * Removes the range of elements from this list starting from
[fromIndex] and ending with but not including [toIndex].\n */\n\n protected open fun removeRange(fromIndex:
Int, toIndex: Int) {\n val iterator = listIterator(fromIndex)\n repeat(toIndex - fromIndex) {\n
iterator.next()\n iterator.remove()\n }\n }\n\n /**\n * Compares this list with another list instance
with the ordered structural equality.\n * \n * @return true, if [other] instance is a [List] of the same size, which
contains the same elements in the same order.\n */\n\n override fun equals(other: Any?): Boolean {\n if (other
=== this) return true\n if (other !is List<*>) return false\n\n return AbstractList.orderedEquals(this, other)\n
}\n\n /**\n * Returns the hash code value for this list.\n */\n\n override fun hashCode(): Int =
AbstractList.orderedHashCode(this)\n\n\n private open inner class IteratorImpl : MutableIterator<E> {\n /**
the index of the item that will be returned on the next call to [next]() */\n protected var index = 0\n /** the
index of the item that was returned on the previous call to [next]() */\n * or [ListIterator.previous]() (for
`ListIterator`),\n * -1 if no such item exists\n */\n protected var last = -1\n\n override fun
hasNext(): Boolean = index < size\n\n override fun next(): E {\n if (!hasNext()) throw
NoSuchElementException()\n last = index++\n return get(last)\n }\n\n override fun remove()
{\n check(last != -1) { "Call next() or previous() before removing element from the iterator." }\n\n
removeAt(last)\n index = last\n last = -1\n }\n }\n\n /**\n * Implementation of
`MutableListIterator` for abstract lists.\n */\n\n private inner class ListIteratorImpl(index: Int) : IteratorImpl(),
MutableListIterator<E> {\n\n init {\n AbstractList.checkPositionIndex(index,
this@AbstractMutableList.size)\n this.index = index\n }\n\n override fun hasPrevious(): Boolean =
index > 0\n\n override fun nextIndex(): Int = index\n\n override fun previous(): E {\n if
(!hasPrevious()) throw NoSuchElementException()\n\n last = --index\n return get(last)\n }\n\n
override fun previousIndex(): Int = index - 1\n\n override fun add(element: E) {\n add(index, element)\n
index++\n last = -1\n }\n\n override fun set(element: E) {\n check(last != -1) { "Call
next() or previous() before updating element value with the iterator." }\n\n set(last, element)\n }\n }\n\n

```

```

private class SubList<E>(private val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) :
AbstractMutableList<E>(), RandomAccess {
    private var _size: Int = 0
    init {
        AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)
        this._size = toIndex - fromIndex
    }
    override fun add(index: Int, element: E) {
        AbstractList.checkPositionIndex(index, _size)
        list.add(fromIndex + index, element)
        _size++
    }
    override fun get(index: Int): E {
        AbstractList.checkElementIndex(index, _size)
        return list[fromIndex + index]
    }
    override fun removeAt(index: Int): E {
        AbstractList.checkElementIndex(index, _size)
        val result = list.removeAt(fromIndex + index)
        _size--
        return result
    }
    override fun set(index: Int, element: E): E {
        AbstractList.checkElementIndex(index, _size)
        return list.set(fromIndex + index, element)
    }
    override val size: Int get() = _size
    internal override fun checkIsMutable(): Unit = list.checkIsMutable()
}

/*
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 */
/*
 * Based on GWT AbstractMap
 * Copyright 2007 Google Inc.
 */
package kotlin.collections

/**
 * Provides a skeletal implementation of the [MutableMap] interface.
 *
 * The implementor is required to implement [entries] property, which should return mutable set of map entries, and [put] function.
 *
 * @param K the type of map keys. The map is invariant in its key type.
 * @param V the type of map values. The map is invariant in its value type.
 */
public abstract class AbstractMutableMap<K, V> protected constructor() : AbstractMap<K, V>(), MutableMap<K, V> {
    /**
     * A mutable [Map.Entry] shared by several [Map] implementations.
     */
    internal open class SimpleEntry<K, V>(override val key: K, value: V) : MutableMap.MutableEntry<K, V> {
        constructor(entry: Map.Entry<K, V>) : this(entry.key, entry.value)
        private var _value = value
        override val value: V get() = _value
        override fun setValue(newValue: V): V {
            // Should check if the map containing this entry is mutable.
            // However, to not increase entry memory footprint it might be worthwhile not to check it here and
            // force subclasses that implement `build()` (freezing) operation to implement their own `MutableEntry`.
            this@AbstractMutableMap.checkIsMutable()
            val oldValue = this._value
            this._value = newValue
            return oldValue
        }
        override fun hashCode(): Int = entryHashCode(this)
        override fun toString(): String = entryToString(this)
        override fun equals(other: Any?): Boolean = entryEquals(this, other)
    }
    // intermediate abstract class to workaround KT-43321
    internal abstract class AbstractEntrySet<E : Map.Entry<K, V>, K, V> : AbstractMutableSet<E>() {
        final override fun contains(element: E): Boolean = containsEntry(element)
        abstract fun containsEntry(element: Map.Entry<K, V>): Boolean
        final override fun remove(element: E): Boolean = removeEntry(element)
        abstract fun removeEntry(element: Map.Entry<K, V>): Boolean
    }
    actual override fun clear() {
        entries.clear()
    }
    private var _keys: MutableSet<K>? = null
    actual override val keys: MutableSet<K> get() {
        if (_keys == null) {
            _keys = object : AbstractMutableSet<K>() {
                override fun add(element: K): Boolean = throw UnsupportedOperationException("Add is not supported on keys")
                override fun clear() {
                    this@AbstractMutableMap.clear()
                }
                override operator fun contains(element: K): Boolean = containsKey(element)
                override operator fun iterator(): MutableIterator<K> {
                    val entryIterator = entries.iterator()
                    return object : MutableIterator<K> {
                        override fun hasNext(): Boolean = entryIterator.hasNext()
                        override fun next(): K = entryIterator.next().key
                        override fun remove() = entryIterator.remove()
                    }
                }
                override fun remove(element: K): Boolean {
                    checkIsMutable()
                    if (containsKey(element)) {
                        this@AbstractMutableMap.remove(element)
                        return true
                    }
                    return false
                }
                override val size: Int get() = this@AbstractMutableMap.size
            }
        }
        return _keys!!
    }
    actual abstract override fun put(key: K, value: V): V?
    actual override fun putAll(from: Map<out K, V>) {
        checkIsMutable()
        for ((key, value) in from) {
            put(key, value)
        }
    }
    private var _values: MutableCollection<V>? = null
    actual override val values:

```



```

MutableCollection<V>\n    get() {\n        if (_values == null) {\n            _values = object :
AbstractMutableCollection<V>() {\n            override fun add(element: V): Boolean = throw
UnsupportedOperationException("Add is not supported on values")\n            override fun clear() =
this@AbstractMutableMap.clear()\n            override operator fun contains(element: V): Boolean =
containsValue(element)\n            override operator fun iterator(): MutableIterator<V> {\n                val
entryIterator = entries.iterator()\n                return object : MutableIterator<V> {\n                    override fun
hasNext(): Boolean = entryIterator.hasNext()\n                    override fun next(): V = entryIterator.next().value\n                    override fun remove() = entryIterator.remove()\n                }\n            }\n        }\n    }\n\noverride val size: Int get() = this@AbstractMutableMap.size\n\noverride fun checkIsMutable(): Unit =
this@AbstractMutableMap.checkIsMutable()\n}\n}\nreturn _values!!\n}\n\nactual
override fun remove(key: K): V? {\n    checkIsMutable()\n    val iter = entries.iterator()\n    while
(iter.hasNext()) {\n        val entry = iter.next()\n        val k = entry.key\n        if (key == k) {\n            val
value = entry.value\n            iter.remove()\n            return value\n        }\n    }\n    return null\n}\n}\n\n/**\n * This method is called every time when a mutating method is called on this mutable map.\n * Mutable
maps that are built (frozen) must throw `UnsupportedOperationException`.\n */\n\ninternal open fun
checkIsMutable(): Unit {\n}\n}\n\n"/\n\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the
[MutableSet] interface.\n */\n * @param E the type of elements contained in the set. The set is invariant in its
element type.\n */\n\npublic actual abstract class AbstractMutableSet<E> protected actual constructor() :
AbstractMutableCollection<E>(), MutableSet<E> {\n\n    /**\n     * Compares this set with another set instance with
the unordered structural equality.\n     */\n     * @return `true`, if [other] instance is a [Set] of the same size, all
elements of which are contained in this set.\n     */\n     override fun equals(other: Any?): Boolean {\n         if (other
=== this) return true\n         if (other !is Set<*>) return false\n         return AbstractSet.setEquals(this, other)\n     }\n\n    /**\n     * Returns the hash code value for this set.\n     */\n     override fun hashCode(): Int =
AbstractSet.unorderedHashCode(this)\n}\n}\n\n"/\n\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a [MutableList] implementation,
which uses a resizable array as its backing storage.\n */\n * This implementation doesn't provide a way to manage
capacity, as backing JS array is resizeable itself.\n */\n * There is no speed advantage to pre-allocating array sizes in
JavaScript, so this implementation does not include any of the\n * capacity and "growth increment" concepts.\n */\n\npublic actual open class ArrayList<E> internal constructor(private var array: Array<Any?>) :
AbstractMutableList<E>(), MutableList<E>, RandomAccess {\n    private var isReadOnly: Boolean = false\n\n    /**\n     * Creates an empty [ArrayList].\n     */\n     public actual constructor() : this(emptyArray()) {\n}\n}\n\n    /**\n     * Creates an empty [ArrayList].\n     */\n     * @param initialCapacity initial capacity (ignored)\n     */\n     public actual
constructor(initialCapacity: Int) : this(emptyArray()) {\n}\n}\n\n    /**\n     * Creates an [ArrayList] filled from the
[elements] collection.\n     */\n     public actual constructor(elements: Collection<E>) :
this(elements.toArray<Any?>()) {\n}\n}\n\n    @PublishedApi\n    internal fun build(): List<E> {\n        checkIsMutable()\n        isReadOnly = true\n        return this\n    }\n\n    /**\n     * Does nothing in this ArrayList
implementation.\n     */\n     public actual fun trimToSize() {\n}\n}\n\n    /**\n     * Does nothing in this ArrayList implementation.\n     */\n     public actual fun ensureCapacity(minCapacity: Int) {\n}\n}\n\n    actual override val size: Int get() = array.size\n\n    @Suppress("UNCHECKED_CAST")\n    actual override fun get(index: Int): E = array[rangeCheck(index)] as E\n\n    actual override fun set(index: Int, element: E): E {\n        checkIsMutable()\n        rangeCheck(index)\n        @Suppress("UNCHECKED_CAST")\n        return array[index].apply { array[index] = element } as E\n    }\n}\n}\n\n    actual override fun add(element: E): Boolean {\n        checkIsMutable()\n        array.asDynamic().push(element)\n        modCount++\n        return true\n    }\n}\n}\n\n    actual override fun add(index: Int, element: E): Unit {\n        checkIsMutable()\n        array.asDynamic().splice(insertionRangeCheck(index), 0, element)\n        modCount++\n    }\n}\n}\n\n    actual override fun addAll(elements: Collection<E>): Boolean {\n        checkIsMutable()\n        if

```



```

loadFactor    the load factor (ignored)\n    *\n    * @throws IllegalArgumentException if the initial capacity or
load factor are negative\n    *\n    actual constructor(initialCapacity: Int, loadFactor: Float) : this() {\n    // This
implementation of HashMap has no need of load factors or capacities.\n    require(initialCapacity >= 0) {\n
\nNegative initial capacity: $initialCapacity"}\n    require(loadFactor >= 0) {"Non-positive load factor:
\nloadFactor"}\n    }\n\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n    /**\n    *
Constructs an instance of [HashMap] filled with the contents of the specified [original] map.\n    *\n    actual
constructor(original: Map<out K, V>) : this() {\n    this.putAll(original)\n    }\n\n    actual override fun clear() {\n
    internalMap.clear()\n\n    structureChanged(this)\n    }\n\n    actual override fun containsKey(key: K): Boolean
= internalMap.containsKey()\n\n    actual override fun containsValue(value: V): Boolean = internalMap.any {
equality.equals(it.value, value) }\n\n    private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? =
null\n\n    actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n    get() {\n    if
(_entries == null) {\n    _entries = createEntrySet()\n    }\n    return _entries!!\n    }\n\n    internal
open fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n    actual override
operator fun get(key: K): V? = internalMap.get(key)\n\n    actual override fun put(key: K, value: V): V? =
internalMap.put(key, value)\n\n    actual override fun remove(key: K): V? = internalMap.remove(key)\n\n    actual
override val size: Int get() = internalMap.size\n\n\n    /**\n    * Constructs the specialized implementation of
[HashMap] with [String] keys, which stores the keys as properties of\n    * JS object without hashing them.\n
*\n    public fun <V> stringMapOf(vararg pairs: Pair<String, V>): HashMap<String, V> {\n    return
HashMap<String, V>(InternalStringMap(EqualityComparator.HashCode)).apply { putAll(pairs) }\n\n    }"/\n\n    *
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governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n    */\n\n    * Based on GWT
HashSet\n    * Copyright 2008 Google Inc.\n    */\n\n    package kotlin.collections\n\n\n    /**\n    * The implementation of the
[MutableSet] interface, backed by a [HashMap] instance.\n    */\n\n    // Classes that extend HashSet and implement
`build()` (freezing) operation\n    // have to make sure mutating methods check `checkIsMutable`\n\n    public actual open
class HashSet<E> : AbstractMutableSet<E>, MutableSet<E> {\n\n    internal val map: HashMap<E, Any>\n\n
\n    /**\n    * Constructs a new empty [HashSet].\n    */\n\n    actual constructor() {\n    map = HashMap<E, Any>()\n
}\n\n    /**\n    * Constructs a new [HashSet] filled with the elements of the specified collection.\n    */\n\n    actual
constructor(elements: Collection<E>) {\n    map = HashMap<E, Any>(elements.size)\n    addAll(elements)\n
}\n\n    /**\n    * Constructs a new empty [HashSet].\n    */\n\n    * @param initialCapacity the initial capacity
(ignored)\n    * @param loadFactor    the load factor (ignored)\n    *\n    * @throws IllegalArgumentException if
the initial capacity or load factor are negative\n    *\n    actual constructor(initialCapacity: Int, loadFactor: Float)
{\n    map = HashMap<E, Any>(initialCapacity, loadFactor)\n    }\n\n    actual constructor(initialCapacity: Int) :
this(initialCapacity, 0.0f)\n\n    /**\n    * Protected constructor to specify the underlying map. This is used by\n
*\n    * LinkedHashSet.\n    */\n\n    * @param map underlying map to use.\n    */\n\n    internal constructor(map: HashMap<E,
Any>) {\n    this.map = map\n    }\n\n    actual override fun add(element: E): Boolean {\n    val old =
map.put(element, this)\n    return old == null\n    }\n\n    actual override fun clear() {\n    map.clear()\n
}\n\n\n    public override fun clone(): Any {\n\n    return HashSet<E>(this)\n\n    }\n\n    actual override operator fun
contains(element: E): Boolean = map.containsKey(element)\n\n    actual override fun isEmpty(): Boolean =
map.isEmpty()\n\n    actual override fun iterator(): MutableIterator<E> = map.keys.iterator()\n\n    actual override
fun remove(element: E): Boolean = map.remove(element) != null\n\n    actual override val size: Int get() =
map.size\n\n\n\n    /**\n    * Creates a new instance of the specialized implementation of [HashSet] with the specified
[String] elements,\n    * which elements the keys as properties of JS object without hashing them.\n    */\n\n    public fun
stringSetOf(vararg elements: String): HashSet<String> {\n    return HashSet(stringMapOf<Any>()).apply {
addAll(elements) }\n\n    }"/\n\n    * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n    * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n    */\n\n    * Based on GWT InternalHashCodeMap\n    * Copyright 2008 Google Inc.\n
*/\n\n    package kotlin.collections\n\n    import kotlin.collections.MutableMap.MutableEntry\n    import
kotlin.collections.AbstractMutableMap.SimpleEntry\n\n\n    /**\n    * A simple wrapper around JavaScriptObject to

```

```

provide [java.util.Map]-like semantics for any
 * key type.
 * Implementation notes:
 * A key's hashCode is the index in backingMap which should contain that key. Since several keys may
 * have the same hash, each value in hashCodeMap is actually an array containing all entries whose
 * keys share the same hash.
 * Internal class InternalHashCodeMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V>
{
    private var backingMap: dynamic = createJsMap()
    override var size: Int = 0
    private set
    override fun put(key: K, value: V): V? {
        val hashCode = equality.getHashCode(key)
        val chainOrEntry = getChainOrEntryOrNull(hashCode)
        if (chainOrEntry == null) {
            // This is a new chain, put it to the map.
            backingMap[hashCode] = SimpleEntry(key, value)
        } else {
            if (chainOrEntry !is Array<*>) {
                // It is an entry
                val entry: SimpleEntry<K, V> = chainOrEntry
                if (equality.equals(entry.key, key)) {
                    return entry.setValue(value)
                } else {
                    backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))
                    size++
                    return null
                }
            } else {
                // Chain already exists, perhaps key also exists.
                val chain: Array<MutableEntry<K, V>> = chainOrEntry
                val entry = chain.findEntryInChain(key)
                if (entry != null) {
                    return entry.setValue(value)
                }
                chain.asDynamic().push(SimpleEntry(key, value))
                size++
                structureChanged(host)
                return null
            }
        }
        override fun remove(key: K): V? {
            val hashCode = equality.getHashCode(key)
            val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null
            if (chainOrEntry !is Array<*>) {
                val entry: MutableEntry<K, V> = chainOrEntry
                if (equality.equals(entry.key, key)) {
                    jsDeleteProperty(backingMap, hashCode)
                    size--
                    return entry.value
                } else {
                    return null
                }
            } else {
                val chain: Array<MutableEntry<K, V>> = chainOrEntry
                for (index in chain.indices) {
                    val entry = chain[index]
                    if (equality.equals(key, entry.key)) {
                        if (chain.size == 1) {
                            chain.asDynamic().length = 0
                            // remove the whole array
                            jsDeleteProperty(backingMap, hashCode)
                        } else {
                            // splice out the entry we're removing
                            chain.asDynamic().splice(index, 1)
                            size--
                            structureChanged(host)
                            return entry.value
                        }
                    }
                }
                return null
            }
        }
        override fun clear() {
            backingMap = createJsMap()
            size = 0
        }
        override fun contains(key: K): Boolean = getEntry(key) != null
        override fun get(key: K): V? = getEntry(key)?.value
        private fun getEntry(key: K): MutableEntry<K, V>? {
            val chainOrEntry = getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null
            if (chainOrEntry !is Array<*>) {
                val entry: MutableEntry<K, V> = chainOrEntry
                if (equality.equals(entry.key, key)) {
                    return entry
                } else {
                    return null
                }
            } else {
                val chain: Array<MutableEntry<K, V>> = chainOrEntry
                return chain.findEntryInChain(key)
            }
        }
        private fun Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? = firstOrNull {
            equality.equals(entry.key, key)
        }
        override fun iterator(): MutableIterator<MutableEntry<K, V>> {
            return object : MutableIterator<MutableEntry<K, V>> {
                var state = -1 // -1 not ready, 0 - ready, 1 - done
                val keys: Array<String> = js("Object").keys(backingMap)
                var keyIndex = -1
                var chainOrEntry: dynamic = null
                var isChain = false
                var itemIndex = -1
                var lastEntry: MutableEntry<K, V>? = null
                private fun computeNext(): Int {
                    if (chainOrEntry != null && isChain) {
                        val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size
                        if (++itemIndex < chainSize) {
                            return 0
                        }
                        if (++keyIndex < keys.size) {
                            chainOrEntry = backingMap[keys[keyIndex]]
                            isChain = chainOrEntry is Array<*>
                            itemIndex = 0
                            return 0
                        } else {
                            chainOrEntry = null
                            return 1
                        }
                    }
                }
                override fun hasNext(): Boolean {
                    if (state == -1) {
                        state = computeNext()
                    }
                    return state == 0
                }
                override fun next(): MutableEntry<K, V> {
                    if (!hasNext()) throw NoSuchElementException()
                    val lastEntry = if (isChain) {
                        chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]
                    } else {
                        chainOrEntry.unsafeCast<MutableEntry<K, V>>()
                    }
                    this.lastEntry = lastEntry
                    state = -1
                    return lastEntry
                }
                override fun remove() {}
            }
        }
    }
}

```

```

checkNotNull(lastEntry)\n          this@InternalHashCodeMap.remove(lastEntry!!.key)\n          lastEntry =
null\n          // the chain being iterated just got modified by InternalHashCodeMap.remove\n          itemIndex-
\n          }\n          }\n          }\n          private fun getChainOrEntryOrNull(hashCode: Int): dynamic {\n          val
chainOrEntry = backingMap[hashCode]\n          return if (chainOrEntry === undefined) null else chainOrEntry\n
}\n}\n}\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n\n/**\n * The common interface of [InternalStringMap] and
[InternalHashCodeMap].\n * An internal interface InternalMap<K, V> :
MutableIterable<MutableMap.MutableEntry<K, V>> {\n val equality: EqualityComparator\n val size: Int\n
operator fun contains(key: K): Boolean\n operator fun get(key: K): V?\n fun put(key: K, value: V): V?\n fun
remove(key: K): V?\n fun clear(): Unit\n fun createJsMap(): dynamic {\n val result =
js("Object.create(null)")\n // force to switch object representation to dictionary mode\n result["foo"] =
1\n jsDeleteProperty(result, "foo")\n return result\n }\n}\n", /*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n * Based on GWT InternalStringMap\n * Copyright
2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n
* A simple wrapper around JavaScript Map for key type is string.\n * Though this map is instantiated only with
K=String, the K type is not fixed to String statically,\n * because we want to have it erased to Any? in order not to
generate type-safe override bridges for\n * [get], [contains], [remove] etc, if they ever are generated.\n */\n\ninternal
class InternalStringMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n\n private var
backingMap: dynamic = createJsMap()\n override var size: Int = 0\n private set\n\n// /**\n\n// * A mod
count to track 'value' replacements in map to ensure that the 'value' that we have in the\n\n// * iterator entry is
guaranteed to be still correct.\n\n// * This is to optimize for the common scenario where the values are not modified
during\n\n// * iterations where the entries are never stale.\n\n// */\n\n// private var valueMod: Int = 0\n\n override
operator fun contains(key: K): Boolean {\n if (key !is String) return false\n return backingMap[key] !==
undefined\n }\n\n override operator fun get(key: K): V? {\n if (key !is String) return null\n val value =
backingMap[key]\n return if (value !== undefined) value.unsafeCast<V>() else null\n }\n\n\n override fun
put(key: K, value: V): V? {\n require(key is String)\n val oldValue = backingMap[key]\n
backingMap[key] = value\n\n if (oldValue === undefined) {\n size++\n//
structureChanged(host)\n return null\n } else {\n// valueMod++\n return
oldValue.unsafeCast<V>()\n }\n }\n\n\n override fun remove(key: K): V? {\n if (key !is String) return
null\n val value = backingMap[key]\n if (value !== undefined) {\n jsDeleteProperty(backingMap,
key)\n size--\n// structureChanged(host)\n return value.unsafeCast<V>()\n } else {\n//
valueMod++\n return null\n }\n }\n\n\n override fun clear() {\n backingMap = createJsMap()\n
size = 0\n }\n\n\n override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n return object :
MutableIterator<MutableEntry<K, V>> {\n private val keys: Array<String> =
js("Object").keys(backingMap)\n private val iterator = keys.iterator()\n private var lastKey: String? =
null\n\n override fun hasNext(): Boolean = iterator.hasNext()\n\n override fun next():
MutableEntry<K, V> {\n val key = iterator.next()\n lastKey = key\n
@Suppress("UNCHECKED_CAST")\n return newMapEntry(key as K)\n }\n\n\n override
fun remove() {\n @Suppress("UNCHECKED_CAST")\n
this@InternalStringMap.remove(checkNotNull(lastKey) as K)\n }\n }\n }\n\n private fun
newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {\n override val key: K get() =
key\n override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()\n\n override fun
setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\n\n override fun
hashCode(): Int = AbstractMap.entryHashCode(this)\n\n override fun toString(): String =
AbstractMap.entryToString(this)\n\n override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this,
other)\n }\n}\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *

```

```

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*/
* Based on GWT LinkedHashMap
* Copyright 2008 Google Inc.
*/
package
kotlin.collections
import kotlin.collections.MutableMap.MutableEntry
/**
 * Hash table based
 * implementation of the [MutableMap] interface, which additionally preserves the insertion order
 * of entries during
 * the iteration.
 * The insertion order is preserved by maintaining a doubly-linked list of all of its entries.
 */
public actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {
    /**
     * The entry we use includes next/prev pointers for a doubly-linked circular
     * list with a head node. This reduces the
     * special cases we have to deal with
     * in the list operations.
     * Note that we duplicate the key from the
     * underlying hash map so we can find
     * the eldest entry. The alternative would have been to modify HashMap so
     * more
     * of the code was directly usable here, but this would have added some
     * overhead to HashMap, or to
     * reimplement most of the HashMap code here with
     * small modifications. Paying a small storage cost only if
     * you use
     * LinkedHashMap and minimizing code size seemed like a better tradeoff
     */
    private inner class ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {
        internal var
        next: ChainEntry<K, V>? = null
        internal var prev: ChainEntry<K, V>? = null
        override fun
        setValue(newValue: V): V {
            this@LinkedHashMap.checkIsMutable()
            return
            super.setValue(newValue)
        }
        private inner class EntrySet : AbstractEntrySet<MutableEntry<K,
        V>, K, V>() {
            private inner class EntryIterator : MutableIterator<MutableEntry<K, V>>() {
                // The
                last entry that was returned from this iterator.
                private var last: ChainEntry<K, V>? = null
                // The
                next entry to return from this iterator.
                private var next: ChainEntry<K, V>? = null
                init {
                    next = head
                }
                recordLastKnownStructure(map, this)
                override fun hasNext():
                Boolean {
                    return next != null
                }
                override fun next(): MutableEntry<K, V> {
                    checkStructuralChange(map, this)
                    if (!hasNext()) throw NoSuchElementException()
                    val
                    current = next!!
                    last = current
                    next = current.next.takeIf { it != head }
                    return
                    current
                }
                override fun remove() {
                    check(last != null)
                    this@EntrySet.checkIsMutable()
                    checkStructuralChange(map, this)
                    last!!.remove()
                    map.remove(last!!.key)
                    recordLastKnownStructure(map, this)
                    last = null
                }
            }
            override fun add(element: MutableEntry<K, V>): Boolean = throw
            UnsupportedOperationException("Add is not supported on entries")
            override fun clear() {
                this@LinkedHashMap.clear()
            }
            override fun containsEntry(element: Map.Entry<K, V>): Boolean =
            this@LinkedHashMap.containsEntry(element)
            override operator fun iterator():
            MutableIterator<MutableEntry<K, V>> = EntryIterator()
            override fun removeEntry(element: Map.Entry<K,
            V>): Boolean {
                checkIsMutable()
                if (contains(element)) {
                    this@LinkedHashMap.remove(element.key)
                    return true
                }
                return false
            }
            override val size: Int get() = this@LinkedHashMap.size
            override fun checkIsMutable(): Unit =
            this@LinkedHashMap.checkIsMutable()
        }
        /**
         * The head of the insert order chain, which is a doubly-
         * linked circular
         * list.
         * The most recently inserted node is at the end of the chain, ie.
         * chain.prev.
         */
        private var head: ChainEntry<K, V>? = null
        /**
         * Add this node to the end of the chain.
         */
        private fun ChainEntry<K, V>.addToEnd() {
            // This entry is not in the list.
            check(next == null && prev
            == null)
            val _head = head
            if (_head == null) {
                head = this
                next = this
                prev =
                this
            } else {
                // Chain is valid.
                val _tail = checkNotNull(_head.prev)
                // Update me.
                prev = _tail
                next = _head
                // Update my new siblings: current head and old tail
                _head.prev = this
                _tail.next = this
            }
        }
        /**
         * Remove this node from the chain it is a part
         * of.
         */
        private fun ChainEntry<K, V>.remove() {
            if (this.next === this) {
                // if this is single
                element, remove head
                head = null
            } else {
                if (head === this) {
                    // if this is first
                    element, move head to next
                    head = next
                }
                next!!.prev = prev
                prev!!.next =
                next
            }
            next = null
            prev = null
        }
        /**
         * The hashmap that keeps track of our entries and
         * the chain. Note that we
         * duplicate the key here to eliminate changes to HashMap and minimize the
         * code
         * here, at the expense of additional space.
         */
        private val map: HashMap<K, ChainEntry<K, V>>

```



```

RESUMED\n                delegate.resumeWith(result)\n                }\n                else -> throw
IllegalStateException("\Already resumed")\n                }\n                }\n                @PublishedApi\n                internal actual fun
getOrThrow(): Any? {\n                if (result === UNDECIDED) {\n                result = COROUTINE_SUSPENDED\n                return COROUTINE_SUSPENDED\n                }\n                val result = this.result\n                return when {\n                result ===
RESUMED -> COROUTINE_SUSPENDED // already called continuation, indicate COROUTINE_SUSPENDED
upstream\n                result is Result.Failure -> throw result.exception\n                else -> result // either
COROUTINE_SUSPENDED or data\n                }\n                }\n                }"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.coroutines.cancellation\n\n@SinceKotlin("1.4")\npublic actual open class CancellationException :
IllegalStateException {\n    actual constructor() : super()\n    actual constructor(message: String?) : super(message)\n    constructor(message: String?, cause: Throwable?) : super(message, cause)\n    constructor(cause: Throwable?) :
super(cause)\n}"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.coroutines.js.internal\n\nimport kotlin.coroutines.Continuation\nimport
kotlin.coroutines.EmptyCoroutineContext\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal val
EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->\n    result.getOrThrow()\n}"/*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.js\n\n/**\n * Exposes the [Date API](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.\n
*/\n\n@Suppress("\NOT_DOCUMENTED")\npublic external class Date() {\n    public constructor(milliseconds:
Number)\n    public constructor(dateString: String)\n    public constructor(year: Int, month: Int)\n    public
constructor(year: Int, month: Int, day: Int)\n    public constructor(year: Int, month: Int, day: Int, hour: Int)\n
    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n    public constructor(year: Int, month:
Int, day: Int, hour: Int, minute: Int, second: Int)\n    public constructor(year: Int, month: Int, day: Int, hour: Int,
minute: Int, second: Int, millisecond: Number)\n    public fun getDate(): Int\n    public fun getDay(): Int\n    public
fun getFullYear(): Int\n    public fun getHours(): Int\n    public fun getMilliseconds(): Int\n    public fun
getMinutes(): Int\n    public fun getMonth(): Int\n    public fun getSeconds(): Int\n    public fun getTime():
Double\n    public fun getTimezoneOffset(): Int\n    public fun getUTCDate(): Int\n    public fun
getUTCDay(): Int\n    public fun getUTCFullYear(): Int\n    public fun getUTCHours(): Int\n    public fun
getUTCMilliseconds(): Int\n    public fun getUTCMinutes(): Int\n    public fun getUTCMonth(): Int\n    public
fun getUTCSeconds(): Int\n    public fun toDateString(): String\n    public fun toISOString(): String\n    public
fun toJSON(): Json\n    public fun toLocaleDateString(locales: Array<String> = definedExternally, options:
LocaleOptions = definedExternally): String\n    public fun toLocaleDateString(locales: String, options:
LocaleOptions = definedExternally): String\n    public fun toLocaleString(locales: Array<String> =
definedExternally, options: LocaleOptions = definedExternally): String\n    public fun toLocaleString(locales:
String, options: LocaleOptions = definedExternally): String\n    public fun toLocaleTimeString(locales:
Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n    public fun
toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\n    public fun
toTimeString(): String\n    public fun toUTCString(): String\n    public companion object {\n    public fun
now(): Double\n    public fun parse(dateString: String): Double\n    public fun UTC(year: Int, month: Int):
Double\n    public fun UTC(year: Int, month: Int, day: Int): Double\n    public fun UTC(year: Int, month:
Int, day: Int, hour: Int): Double\n    public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int):
Double\n    public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int): Double\n    public
fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number): Double\n
}\n    public interface LocaleOptions {\n    public var localeMatcher: String?\n    public var timeZone:
String?\n    public var hour12: Boolean?\n    public var formatMatcher: String?\n    public var weekday:

```

```

String?
    public var era: String?
    public var year: String?
    public var month: String?
    public var day: String?
    public var hour: String?
    public var minute: String?
    public var second: String?
    public var timeZoneName: String?
}
public inline fun dateLocaleOptions(init: Date.LocaleOptions.() -> Unit): Date.LocaleOptions {
    val result = js("new Object()").unsafeCast<Date.LocaleOptions>()
    init(result)
    return result
}
/*
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.dom
import org.w3c.dom.Document
import org.w3c.dom.Element
import kotlin.internal.LowPriorityInOverloadResolution
import kotlin.dom.appendChild as newAppendElement
import kotlin.dom.createElement as newCreateElement
/**
 * Creates a new element with the specified [name].
 * The element is initialized with the specified [init] function.
 */
@LowPriorityInOverloadResolution
@Deprecated(
    message = "This API is moved to another package, use 'kotlinx.dom.createElement' instead.",
    replaceWith = ReplaceWith("this.createElement(name, init)", "kotlinx.dom.createElement")
)
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")
public inline fun Document.createElement(name: String, noinline init: Element.() -> Unit): Element =
    this.newCreateElement(name, init)
/**
 * Appends a newly created element with the specified [name] to this element.
 * The element is initialized with the specified [init] function.
 */
@LowPriorityInOverloadResolution
@Deprecated(
    message = "This API is moved to another package, use 'kotlinx.dom.appendChild' instead.",
    replaceWith = ReplaceWith("this.appendChild(name, init)", "kotlinx.dom.appendChild")
)
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")
public inline fun Element.appendChild(name: String, noinline init: Element.() -> Unit): Element =
    this.newAppendElement(name, init)
/*
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 */
package kotlin.dom
import org.w3c.dom.Element
import kotlin.internal.LowPriorityInOverloadResolution
import kotlin.dom.addClass as newAddClass
import kotlin.dom.hasClass as newHasClass
import kotlin.dom.removeClass as newRemoveClass
/**
 * Returns true if the element has the given CSS class style in its 'class' attribute
 */
@LowPriorityInOverloadResolution
@Deprecated(
    message = "This API is moved to another package, use 'kotlinx.dom.hasClass' instead.",
    replaceWith = ReplaceWith("this.hasClass(cssClass)", "kotlinx.dom.hasClass")
)
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")
inline fun Element.hasClass(cssClass: String): Boolean = this.newHasClass(cssClass)
/**
 * Adds CSS class to element. Has no effect if all specified classes are already in class attribute of the element
 * @return true if at least one class has been added
 */
@LowPriorityInOverloadResolution
@Deprecated(
    message = "This API is moved to another package, use 'kotlinx.dom.addClass' instead.",
    replaceWith = ReplaceWith("this.addClass(cssClasses)", "kotlinx.dom.addClass")
)
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")
inline fun Element.addClass(vararg cssClasses: String): Boolean =
    this.newAddClass(*cssClasses)
/**
 * Removes all [cssClasses] from element. Has no effect if all specified classes are missing in class attribute of the element
 * @return true if at least one class has been removed
 */
@LowPriorityInOverloadResolution
@Deprecated(
    message = "This API is moved to another package, use 'kotlinx.dom.removeClass' instead.",
    replaceWith = ReplaceWith("this.removeClass(cssClasses)", "kotlinx.dom.removeClass")
)
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")
inline fun Element.removeClass(vararg cssClasses: String): Boolean = this.newRemoveClass(*cssClasses)
/*
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 */
package kotlin.dom
import org.w3c.dom.Element
import org.w3c.dom.Node
import kotlin.internal.LowPriorityInOverloadResolution
import kotlin.dom.isElement as newIsElement
import kotlin.dom.isText as newIsText
/**
 * Gets a value indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.
 */
@LowPriorityInOverloadResolution
@Deprecated(
    message = "This API

```

```

is moved to another package, use 'kotlinx.dom.isText' instead.`,\n  replaceWith = ReplaceWith(`this.isText`,
`kotlinx.dom.isText`)`)\n)\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince = `1.6`)\npublic val
Node.isText: Boolean\n  inline get() = this.newIsText`\n\n/*\n * Gets a value indicating whether this node is an
[Element].\n *`\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = `This API is moved to
another package, use 'kotlinx.dom.isElement' instead.`,\n  replaceWith = ReplaceWith(`this.isElement`,
`kotlinx.dom.isElement`)`)\n)\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince = `1.6`)\npublic val
Node.isElement: Boolean\n  inline get() = this.newIsElement`\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom.events\n\npublic fun
EventListener(handler: (Event) -> Unit): EventListener = EventListenerHandler(handler)\n\nprivate class
EventListenerHandler(private val handler: (Event) -> Unit) : EventListener {\n  public override fun
handleEvent(event: Event) {\n    handler(event)\n  }\n  public override fun toString(): String =
`EventListenerHandler($handler)`\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage org.w3c.dom\n\npublic external interface ItemArrayLike<out T> {\n
val length: Int\n  fun item(index: Int): T?\n}\n\n/*\n * Returns the view of this `ItemArrayLike<T>` collection as
`List<T>`\n */\npublic fun <T> ItemArrayLike<T>.asList(): List<T> = object : AbstractList<T>() {\n  override val
size: Int get() = this@asList.length\n\n  override fun get(index: Int): T = when (index) {\n    in 0..lastIndex ->
this@asList.item(index).unsafeCast<T>()\n    else -> throw IndexOutOfBoundsException(`index $index is not in
range [0..$lastIndex]`)`)\n  }\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport
org.w3c.dom.Node\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.appendText as
newAppendText\nimport kotlinx.dom.clear as newClear\n\n/** Removes all the children from this node.
*\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = `This API is moved to another package,
use 'kotlinx.dom.clear' instead.`,\n  replaceWith = ReplaceWith(`this.clear()`),
`kotlinx.dom.clear`)`)\n)\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince = `1.6`)\npublic inline fun
Node.clear() = this.newClear()\n\n/*\n * Creates text node and append it to the element.\n */\n@return this
element\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = `This API is moved to another
package, use 'kotlinx.dom.appendText' instead.`,\n  replaceWith = ReplaceWith(`this.appendText(text)`),
`kotlinx.dom.appendText`)`)\n)\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince = `1.6`)\ninline fun
Element.appendText(text: String): Element = this.newAppendText(text)\n\n"/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/*\n * Reinterprets this value
as a value of the [dynamic type](/docs/reference/dynamic-type.html).\n */\n@kotlin.internal.InlineOnly\npublic
inline fun Any?.asDynamic(): dynamic = this\n\n/*\n * Reinterprets this value as a value of the specified type [T]
without any actual type checking.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Any?.unsafeCast():
@kotlin.internal.NoInfer T = this.asDynamic()\n\n/*\n * Reinterprets this `dynamic` value as a value of the
specified type [T] without any actual type checking.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\n\n/*\n * Allows to iterate this `dynamic`
object in the following cases:\n * - when it has an `iterator` function,\n * - when it is an array\n * - when it is an
instance of [kotlin.collections.Iterable]\n */\n@kotlin.internal.DynamicExtension\npublic operator fun
dynamic.iterator(): Iterator<dynamic> {\n  val r: Any? = this\n  return when {\n    this[`iterator`] != null ->
this[`iterator`]()\n    isArrayish(r) -> r.unsafeCast<Array<*>>().iterator()\n    else ->
(r as Iterable<*>).iterator()\n  }\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the

```

```

module\n\n@JsName("throwNPE")\ninternal fun throwNPE(message: String) {\n  throw
NullPointerException(message)\n}\n\n@JsName("throwCCE")\ninternal fun throwCCE() {\n  throw
ClassCastException("Illegal cast")\n}\n\n@JsName("throwISE")\ninternal fun throwISE(message: String) {\n
throw IllegalStateException(message)\n}\n\n@JsName("throwUPAE")\ninternal fun throwUPAE(propertyName:
String) {\n  throw UninitializedPropertyAccessException("lateinit property ${propertyName} has not been
initialized")\n}\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\npackage kotlin.collections\n\n/**\n * Groups elements from the [Grouping] source by key and counts elements
in each group.\n * @return a [Map] associating the key of each group with the count of elements in the group.\n
*/\n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin("1.1")\npublic actual fun
<T, K> Grouping<T, K>.eachCount(): Map<K, Int> =\n  fold(0) { acc, _ -> acc + 1 }\n\n/**\n * Groups
elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements
in each group.\n * @return a [Map] associating the key of each group with the count of element in the group.\n
*/\n@SinceKotlin("1.1")\npublic inline fun <T, K> Grouping<T, K>.eachSumOf(valueSelector: (T) -> Int):
Map<K, Int> =\n  fold(0) { acc, e -> acc + valueSelector(e) }\n"/**\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("GroupingKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.collections\n\n/**\n * Represents a source of elements with a [keyOf] function, which can be applied to each
element to get its key.\n * A [Grouping] structure serves as an intermediate step in group-and-fold operations:\n
* they group elements by their keys and then fold each group with some aggregating operation.\n * It is created
by attaching `keySelector: (T) -> K` function to a source of elements.\n * To get an instance of [Grouping] use one
of `groupingBy` extension functions:\n * - [Iterable.groupingBy]\n * - [Sequence.groupingBy]\n * -
[Array.groupingBy]\n * - [CharSequence.groupingBy]\n * For the list of group-and-fold operations available,
see the [extension functions](#extension-functions) for `Grouping`.\n */\n@SinceKotlin("1.1")\npublic interface
Grouping<T, out K> {\n  /** Returns an [Iterator] over the elements of the source of this grouping. */\n  fun
sourceIterator(): Iterator<T>\n  /** Extracts the key of an [element]. */\n  fun keyOf(element: T): K\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group
sequentially,\n * passing the previously accumulated value and the current element as arguments, and stores the
results in a new map.\n * The key for each element is provided by the [Grouping.keyOf] function.\n * @param
operation function is invoked on each element with the following parameters:\n * - `key`: the key of the
group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null`
if it's the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n
* - `first`: indicates whether it's the first `element` encountered in the group.\n * @return a [Map] associating
the key of each group with the result of aggregation of the group elements.\n * @sample
samples.collections.Grouping.aggregateByRadix\n */\n@SinceKotlin("1.1")\npublic inline fun <T, K, R>
Grouping<T, K>.aggregate(\n  operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): Map<K,
R> {\n  return aggregateTo(mutableMapOf<K, R>(), operation)\n}\n\n/**\n * Groups elements from the
[Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the
previously accumulated value and the current element as arguments,\n * and stores the results in the given
[destination] map.\n * The key for each element is provided by the [Grouping.keyOf] function.\n * @param
operation a function that is invoked on each element with the following parameters:\n * - `key`: the key of the
group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null`
if it's the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n
* - `first`: indicates whether it's the first `element` encountered in the group.\n * If the [destination] map already has
a value corresponding to some key,\n * then the elements being aggregated for that key are never considered as
`first`.\n * @return the [destination] map associating the key of each group with the result of aggregation of the
group elements.\n * @sample samples.collections.Grouping.aggregateByRadixTo\n

```

```

*\n@SinceKotlin("1.1")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T,
K>.aggregateTo(\n destination: M,\n operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R)\n): M
{\n for (e in this.sourceIterator()) {\n val key = keyOf(e)\n val accumulator = destination[key]\n
destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))\n }
}\n return destination\n}\n\n**\n * Groups elements from the [Grouping] source by key and applies [operation] to the
elements of each group sequentially,\n * passing the previously accumulated value and the current element as
arguments, and stores the results in a new map.\n * An initial value of accumulator is provided by
[initialValueSelector] function.\n *\n * @param initialValueSelector a function that provides an initial value of
accumulator for each group.\n * It's invoked with parameters:\n * - `key`: the key of the group;\n * - `element`: the
first element being encountered in that group.\n *\n * @param operation a function that is invoked on each element
with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the
current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n
*\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n *
@\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue\n
*\n@SinceKotlin("1.1")\npublic inline fun <T, K, R> Grouping<T, K>.fold(\n initialValueSelector: (key: K,
element: T) -> R,\n operation: (key: K, accumulator: R, element: T) -> R)\n): Map<K, R> =\n
@Suppress("UNCHECKED_CAST")\n aggregate { key, acc, e, first -> operation(key, if (first)
initialValueSelector(key, e) else acc as R, e) }\n\n**\n * Groups elements from the [Grouping] source by key and
applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the
current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of
accumulator is provided by [initialValueSelector] function.\n *\n * @param initialValueSelector a function that
provides an initial value of accumulator for each group.\n * It's invoked with parameters:\n * - `key`: the key of the
group;\n * - `element`: the first element being encountered in that group.\n *\n * If the [destination] map already has
a value corresponding to some key, that value is used as an initial value of\n * the accumulator for that group and the
[initialValueSelector] function is not called for that group.\n *\n * @param operation a function that is invoked on
each element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * -
`accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being
accumulated.\n *\n * @return the [destination] map associating the key of each group with the result of
accumulating the group elements.\n * @sample
samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo\n
*\n@SinceKotlin("1.1")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n destination: M,\n
initialValueSelector: (key: K, element: T) -> R,\n operation: (key: K, accumulator: R, element: T) -> R)\n): M =\n
@Suppress("UNCHECKED_CAST")\n aggregateTo(destination) { key, acc, e, first -> operation(key, if (first)
initialValueSelector(key, e) else acc as R, e) }\n\n**\n * Groups elements from the [Grouping] source by key and
applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the
current element as arguments, and stores the results in a new map.\n * An initial value of accumulator is the same
[initialValue] for each group.\n *\n * @param operation a function that is invoked on each element with the
following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the
element from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the
result of accumulating the group elements.\n * @sample
samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue\n
*\n@SinceKotlin("1.1")\npublic inline fun <T, K, R> Grouping<T, K>.fold(\n initialValue: R,\n operation: (accumulator: R, element: T) -> R)\n):
Map<K, R> =\n @Suppress("UNCHECKED_CAST")\n aggregate { _, acc, e, first -> operation(if (first)
initialValue else acc as R, e) }\n\n**\n * Groups elements from the [Grouping] source by key and applies
[operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current
element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of accumulator
is the same [initialValue] for each group.\n *\n * If the [destination] map already has a value corresponding to the key
of some group,\n * that value is used as an initial value of the accumulator for that group.\n *\n * @param operation

```

a function that is invoked on each element with the following parameters:

- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated.

@return the [destination] map associating the key of each group with the result of accumulating the group elements.

```

@sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo
*/
@SinceKotlin("1.1")
public inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(
destination: M,
initialValue: R,
operation: (accumulator: R, element: T) -> R): M =
@Suppress("UNCHECKED_CAST")
aggregateTo(destination) { _, acc, e, first -> operation(if (first)
initialValue else acc as R, e) }
*/
*/ Groups elements from the [Grouping] source by key and applies the
reducing [operation] to the elements of each group
*/ sequentially starting from the second element of the group,
*/ passing the previously accumulated value and the current element as arguments,
*/ and stores the results in a new
map.
*/ An initial value of accumulator is the first element of the group.
*/ @param operation a function that
is invoked on each subsequent element of the group with the following parameters:
*/ - `key`: the key of the group
this element belongs to;
*/ - `accumulator`: the current value of the accumulator of the group;
*/ - `element`: the
element from the source being accumulated.
*/ @return a [Map] associating the key of each group with the
result of accumulating the group elements.
*/ @sample samples.collections.Grouping.reduceByMaxVowels
*/
@SinceKotlin("1.1")
public inline fun <S, T : S, K> Grouping<T, K>.reduce(
operation: (key: K,
accumulator: S, element: T) -> S): Map<K, S> =
aggregate { key, acc, e, first ->
@Suppress("UNCHECKED_CAST")
if (first) e else operation(key, acc as S, e) }
*/
*/ Groups
elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group
*/ sequentially starting from the second element of the group,
*/ passing the previously accumulated value and the
current element as arguments,
*/ and stores the results in the given [destination] map.
*/ An initial value of
accumulator is the first element of the group.
*/ @param operation a function that is invoked on
each subsequent element of the group with the following parameters:
*/ - `accumulator`: the current value of the
accumulator of the group;
*/ - `element`: the element from the source being folded;
*/ @return the
[destination] map associating the key of each group with the result of accumulating the group elements.
*/
@sample samples.collections.Grouping.reduceByMaxVowelsTo
*/
@SinceKotlin("1.1")
public inline fun <S,
T : S, K, M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(
destination: M,
operation: (key: K,
accumulator: S, element: T) -> S): M =
aggregateTo(destination) { key, acc, e, first ->
@Suppress("UNCHECKED_CAST")
if (first) e else operation(key, acc as S, e) }
*/
*/ Groups
elements from the [Grouping] source by key and counts elements in each group to the given [destination] map.
*/
*/ If the [destination] map already has a value corresponding to the key of some group,
*/ that value is used as an
initial value of the counter for that group.
*/ @return the [destination] map associating the key of each group
with the count of elements in the group.
*/ @sample samples.collections.Grouping.groupingByEachCount
*/
@SinceKotlin("1.1")
public fun <T, K, M : MutableMap<in K, Int>> Grouping<T,
K>.eachCountTo(destination: M): M =
foldTo(destination, 0) { acc, _ -> acc + 1 }
*/
*/ Groups
elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements
in each group
*/ to the given [destination] map.
*/
*/ If the [destination] map already has a value
corresponding to the key of some group,
*/ that value is used as an initial value of the sum for that group.
*/
*/ @return the [destination] map associating the key of each group with the sum of elements in the group.
*/
*/
@SinceKotlin("1.1")
public inline fun <T, K, M : MutableMap<in K, Int>> Grouping<T,
K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =
foldTo(destination, 0) { acc, e -> acc +
valueSelector(e) }
*/
*/
*/ TODO: sum by long and by double overloads
*/
public inline fun <T, K, M :
MutableMap<in K, Long>> Grouping<T, K>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long): M
=
foldTo(destination, 0L) { acc, e -> acc + valueSelector(e) }
*/
public inline fun <T, K> Grouping<T,
K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =
fold(0L) { acc, e -> acc +
valueSelector(e) }
*/
public inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T,

```


range from $-\pi/2$ to $\pi/2$ radians.
`*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atan(x: Double): Double = nativeMath.atan(x)\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value y / x ;\n * the returned value is an angle in the range from $-\pi$ to π radians.\n * Special cases:\n * - atan(0.0, 0.0) is 0.0\n * - atan(0.0, x) is 0.0 for $x > 0$ and PI for $x < 0$ \n * - atan2(-0.0, x) is -0.0 for $x > 0$ and -PI for $x < 0$ \n * - atan2(y, +Inf) is 0.0 for $0 < y < +Inf$ and -0.0 for $-Inf < y < 0$ \n * - atan2(y, -Inf) is PI for $0 < y < +Inf$ and -PI for $-Inf < y < 0$ \n * - atan2(y, 0.0) is PI/2 for $y > 0$ and -PI/2 for $y < 0$ \n * - atan2(+Inf, x) is PI/2 for finite x \n * - atan2(-Inf, x) is -PI/2 for finite x \n * - atan2(NaN, x) and atan2(y, NaN) is NaN\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atan2(y: Double, x: Double): Double = nativeMath.atan2(y, x)\n\n/**\n * Computes the hyperbolic sine of the value x .\n * Special cases:\n * - sinh(NaN) is NaN\n * - sinh(+Inf) is +Inf\n * - sinh(-Inf) is -Inf\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sinh(x: Double): Double = nativeMath.sinh(x)\n\n/**\n * Computes the hyperbolic cosine of the value x .\n * Special cases:\n * - cosh(NaN) is NaN\n * - cosh(+Inf|-Inf) is +Inf\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun cosh(x: Double): Double = nativeMath.cosh(x)\n\n/**\n * Computes the hyperbolic tangent of the value x .\n * Special cases:\n * - tanh(NaN) is NaN\n * - tanh(+Inf) is 1.0\n * - tanh(-Inf) is -1.0\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tanh(x: Double): Double = nativeMath.tanh(x)\n\n/**\n * Computes the inverse hyperbolic sine of the value x .\n * The returned value is y such that $\sinh(y) == x$.\n * Special cases:\n * - asinh(NaN) is NaN\n * - asinh(+Inf) is +Inf\n * - asinh(-Inf) is -Inf\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asinh(x: Double): Double = nativeMath.asinh(x)\n\n/**\n * Computes the inverse hyperbolic cosine of the value x .\n * The returned value is positive y such that $\cosh(y) == x$.\n * Special cases:\n * - acosh(NaN) is NaN\n * - acosh(x) is NaN when $x < 1$ \n * - acosh(+Inf) is +Inf\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acosh(x: Double): Double = nativeMath.acosh(x)\n\n/**\n * Computes the inverse hyperbolic tangent of the value x .\n * The returned value is y such that $\tanh(y) == x$.\n * Special cases:\n * - tanh(NaN) is NaN\n * - tanh(x) is NaN when $x > 1$ or $x < -1$ \n * - tanh(1.0) is +Inf\n * - tanh(-1.0) is -Inf\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atanh(x: Double): Double = nativeMath.atanh(x)\n\n/**\n * Computes $\sqrt{x^2 + y^2}$ without intermediate overflow or underflow.\n * Special cases:\n * - returns +Inf if any of arguments is infinite\n * - returns NaN if any of arguments is NaN and the other is not infinite\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun hypot(x: Double, y: Double): Double = nativeMath.hypot(x, y)\n\n/**\n * Computes the positive square root of the value x .\n * Special cases:\n * - sqrt(x) is NaN when $x < 0$ or x is NaN\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sqrt(x: Double): Double = nativeMath.sqrt(x)\n\n/**\n * Computes Euler's number e raised to the power of the value x .\n * Special cases:\n * - exp(NaN) is NaN\n * - exp(+Inf) is +Inf\n * - exp(-Inf) is 0.0\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun exp(x: Double): Double = nativeMath.exp(x)\n\n/**\n * Computes $\exp(x) - 1$.\n * This function can be implemented to produce more precise result for x near zero.\n * Special cases:\n * - expm1(NaN) is NaN\n * - expm1(+Inf) is +Inf\n * - expm1(-Inf) is -1.0\n * @see [exp] function.\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun expm1(x: Double): Double = nativeMath.expm1(x)\n\n/**\n * Computes the logarithm of the value x to the given [base].\n * Special cases:\n * - log(x, b) is NaN if either x or b are NaN\n * - log(x, b) is NaN when $x < 0$ or $b \leq 0$ or $b == 1.0$ \n * - log(+Inf, +Inf) is NaN\n * - log(+Inf, b) is +Inf for $b > 1$ and -Inf for $b < 1$ \n * - log(0.0, b) is -Inf for $b > 1$ and +Inf for $b > 1$ \n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin("1.2")\npublic actual fun log(x: Double, base: Double): Double {\n if (base <= 0.0 || base == 1.0) return Double.NaN\n return nativeMath.log(x) / nativeMath.log(base)\n}\n\n/**\n * Computes the natural logarithm (base E) of the value x .\n * Special cases:\n * - ln(NaN) is NaN\n * - ln(x) is NaN when $x < 0.0$ \n * - ln(+Inf) is +Inf\n * - ln(0.0) is -`

```

Inf\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ln(x: Double): Double =
nativeMath.log(x)\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n *\n * @see [ln] function
for special cases.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun log10(x: Double): Double =
nativeMath.log10(x)\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n *\n * @see [ln] function
for special cases.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun log2(x: Double): Double =
nativeMath.log2(x)\n\n/**\n * Computes `ln(x + 1)`. \n *\n * This function can be implemented to produce more
precise result for [x] near zero.\n *\n * Special cases:\n * - `ln1p(NaN)` is `NaN`\n * - `ln1p(x)` is `NaN` where `x
< -1.0`\n * - `ln1p(-1.0)` is `-Inf`\n * - `ln1p(+Inf)` is `+Inf`\n *\n * @see [ln] function\n *\n * @see [expm1]
function\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ln1p(x: Double): Double =
nativeMath.log1p(x)\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n *\n * @return the
smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\n *\n *
Special cases:\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ceil(x: Double): Double =
nativeMath.ceil(x)\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n *\n * @return the
largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n *\n *
Special cases:\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun floor(x: Double): Double =
nativeMath.floor(x)\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n *\n * @return the value [x]
having its fractional part truncated.\n *\n * Special cases:\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or
`-Inf` or already a mathematical integer.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun
truncate(x: Double): Double = nativeMath.trunc(x)\n\n/**\n * Rounds the given value [x] towards the closest integer
with ties rounded towards even integer.\n *\n * Special cases:\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or
`-Inf` or already a mathematical integer.\n *\n@SinceKotlin("1.2")\npublic actual fun round(x: Double): Double
{\n    if (x % 0.5 != 0.0) {\n        return nativeMath.round(x)\n    }\n    val floor = floor(x)\n    return if (floor % 2 ==
0.0) floor else ceil(x)\n}\n\n/**\n * Returns the absolute value of the given value [x].\n *\n * Special cases:\n * -
`abs(NaN)` is `NaN`\n *\n * @see absoluteValue extension property for [Double]\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun abs(x: Double): Double =
nativeMath.abs(x)\n\n/**\n * Returns the sign of the given value [x]:\n * - `-1.0` if the value is negative,\n * - zero
if the value is zero,\n * - `1.0` if the value is positive\n *\n * Special case:\n * - `sign(NaN)` is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sign(x: Double): Double =
nativeMath.sign(x)\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, then the result is
`NaN`. \n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Double, b: Double): Double =
nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, then the result is
`NaN`. \n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Double, b: Double): Double =
nativeMath.max(a, b)\n\n// extensions\n\n/**\n * Raises this value to the power [x].\n *\n * Special cases:\n * -
`b.pow(0.0)` is `1.0`\n * - `b.pow(1.0) == b`\n * - `b.pow(NaN)` is `NaN`\n * - `NaN.pow(x)` is `NaN` for `x !=
0.0`\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not
an integer\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Double.pow(x: Double): Double =
nativeMath.pow(this, x)\n\n/**\n * Raises this value to the integer power [n].\n *\n * See the other overload of
[pow] for details.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Double.pow(n: Int): Double
= nativeMath.pow(this, n.toDouble())\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *
- `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline val Double.absoluteValue: Double get() = nativeMath.abs(this)\n\n/**\n * Returns the sign of this
value:\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n *\n *
Special case:\n * - `NaN.sign` is `NaN`\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val
Double.sign: Double get() = nativeMath.sign(this)\n\n/**\n * Returns this value with the sign bit same as of the
[sign] value.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Double.withSign(sign: Int):
Double = this.withSign(sign.toDouble())\n\n/**\n * Returns the ulp (unit in the last place) of this value.\n *\n * An

```

ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.

`Special Cases:`

- `NaN.ulp` is `NaN`
- `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`
- `0.0.ulp` is `Double.MIN_VALUE`

`@SinceKotlin("1.2")` public actual val Double.ulp: Double get() = when {
`this < 0 -> (-this).ulp`
`this.isNaN() || this == Double.POSITIVE_INFINITY -> this`
`this == Double.MAX_VALUE -> this - this.nextDown()`
`else -> this.nextUp() - this`

`Double.MAX_VALUE -> this - this.nextDown()`
`else -> this.nextUp() - this`

`Double.nextUp(): Double = when {`
`this.isNaN() || this == Double.POSITIVE_INFINITY -> this`
`this == 0.0 -> Double.MIN_VALUE`
`else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)`

`Double.nextDown(): Double = when {`
`this.isNaN() || this == Double.NEGATIVE_INFINITY -> this`
`this == 0.0 -> -Double.MIN_VALUE`
`else -> Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)`

`Double.nextTowards(y): Double = when {`
`x == y -> x`
`x.isNaN() || y.isNaN() -> NaN`
`else -> x > y -> x.nextTowards(y)`
`x < y -> x.nextTowards(x)`

`Double.nextTowards(to: Double): Double = when {`
`this.isNaN() || to.isNaN() -> NaN`
`to == this -> to`
`to > this -> this.nextUp()`
`else /* to < this */ -> this.nextDown()`

`Double.round(): Int = when {`
`this > Int.MAX_VALUE -> Int.MAX_VALUE`
`this < Int.MIN_VALUE -> Int.MIN_VALUE`
`else -> nativeMath.round(this).toInt()`

`Double.roundToLong(): Long = when {`
`this > Long.MAX_VALUE -> Long.MAX_VALUE`
`this < Long.MIN_VALUE -> Long.MIN_VALUE`
`else -> nativeMath.round(this).toLong()`

`Float Math`

`sin(x: Float): Float = nativeMath.sin(x.toDouble()).toFloat()`

`cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()`

`tan(x: Float): Float = nativeMath.tan(x.toDouble()).toFloat()`

`asin(x: Float): Float = nativeMath.asin(x.toDouble()).toFloat()`

`acos(x: Float): Float = nativeMath.acos(x.toDouble()).toFloat()`

`atan(x: Float): Float = nativeMath.atan(x.toDouble()).toFloat()`

returned value is an angle in the range from $-\pi$ to π radians.

Special cases:

- $\text{atan2}(0.0, 0.0)$ is 0.0
- $\text{atan2}(0.0, x)$ is 0.0 for $x > 0$ and π for $x < 0$
- $\text{atan2}(-0.0, x)$ is -0.0 for $x > 0$ and $-\pi$ for $x < 0$
- $\text{atan2}(y, +\text{Inf})$ is 0.0 for $0 < y < +\text{Inf}$ and -0.0 for $-\text{Inf} < y < 0$
- $\text{atan2}(y, -\text{Inf})$ is π for $0 < y < +\text{Inf}$ and $-\pi$ for $-\text{Inf} < y < 0$
- $\text{atan2}(y, 0.0)$ is $\pi/2$ for $y > 0$ and $-\pi/2$ for $y < 0$
- $\text{atan2}(+\text{Inf}, x)$ is $\pi/2$ for finite x
- $\text{atan2}(-\text{Inf}, x)$ is $-\pi/2$ for finite x
- $\text{atan2}(\text{NaN}, x)$ and $\text{atan2}(y, \text{NaN})$ is NaN

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun atan2(y: Float, x: Float): Float = nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()

```

Computes the hyperbolic sine of the value [x].

Special cases:

- $\sinh(\text{NaN})$ is NaN
- $\sinh(+\text{Inf})$ is $+\text{Inf}$
- $\sinh(-\text{Inf})$ is $-\text{Inf}$

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun sinh(x: Float): Float = nativeMath.sinh(x.toDouble()).toFloat()

```

Computes the hyperbolic cosine of the value [x].

Special cases:

- $\cosh(\text{NaN})$ is NaN
- $\cosh(+\text{Inf} | -\text{Inf})$ is $+\text{Inf}$

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun cosh(x: Float): Float = nativeMath.cosh(x.toDouble()).toFloat()

```

Computes the hyperbolic tangent of the value [x].

Special cases:

- $\tanh(\text{NaN})$ is NaN
- $\tanh(+\text{Inf})$ is 1.0
- $\tanh(-\text{Inf})$ is -1.0

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun tanh(x: Float): Float = nativeMath.tanh(x.toDouble()).toFloat()

```

Computes the inverse hyperbolic sine of the value [x].

The returned value is y such that $\sinh(y) == x$.

Special cases:

- $\text{asinh}(\text{NaN})$ is NaN
- $\text{asinh}(+\text{Inf})$ is $+\text{Inf}$
- $\text{asinh}(-\text{Inf})$ is $-\text{Inf}$

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun asinh(x: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()

```

Computes the inverse hyperbolic cosine of the value [x].

The returned value is positive y such that $\cosh(y) == x$.

Special cases:

- $\text{acosh}(\text{NaN})$ is NaN
- $\text{acosh}(x)$ is NaN when $x < 1$
- $\text{acosh}(+\text{Inf})$ is $+\text{Inf}$

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun acosh(x: Float): Float = nativeMath.acosh(x.toDouble()).toFloat()

```

Computes the inverse hyperbolic tangent of the value [x].

The returned value is y such that $\tanh(y) == x$.

Special cases:

- $\text{atanh}(\text{NaN})$ is NaN
- $\text{atanh}(x)$ is NaN when $x > 1$ or $x < -1$
- $\text{atanh}(1.0)$ is $+\text{Inf}$
- $\text{atanh}(-1.0)$ is $-\text{Inf}$

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun atanh(x: Float): Float = nativeMath.atanh(x.toDouble()).toFloat()

```

Computes $\sqrt{x^2 + y^2}$ without intermediate overflow or underflow.

Special cases:

- returns $+\text{Inf}$ if any of arguments is infinite
- returns NaN if any of arguments is NaN and the other is not infinite

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun hypot(x: Float, y: Float): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()

```

Computes the positive square root of the value [x].

Special cases:

- \sqrt{x} is NaN when $x < 0$ or x is NaN

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun sqrt(x: Float): Float = nativeMath.sqrt(x.toDouble()).toFloat()

```

Computes Euler's number e raised to the power of the value [x].

Special cases:

- $\exp(\text{NaN})$ is NaN
- $\exp(+\text{Inf})$ is $+\text{Inf}$
- $\exp(-\text{Inf})$ is 0.0

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun exp(x: Float): Float = nativeMath.exp(x.toDouble()).toFloat()

```

Computes $\exp(x) - 1$.

This function can be implemented to produce more precise result for [x] near zero.

Special cases:

- $\text{expm1}(\text{NaN})$ is NaN
- $\text{expm1}(+\text{Inf})$ is $+\text{Inf}$
- $\text{expm1}(-\text{Inf})$ is -1.0

@see [exp] function.

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun expm1(x: Float): Float = nativeMath.expm1(x.toDouble()).toFloat()

```

Computes the logarithm of the value [x] to the given [base].

Special cases:

- $\log(x, b)$ is NaN if either x or b are NaN
- $\log(x, b)$ is NaN when $x < 0$ or $b \leq 0$ or $b == 1.0$
- $\log(+\text{Inf}, +\text{Inf})$ is NaN
- $\log(+\text{Inf}, b)$ is $+\text{Inf}$ for $b > 1$ and $-\text{Inf}$ for $b < 1$
- $\log(0.0, b)$ is $-\text{Inf}$ for $b > 1$ and $+\text{Inf}$ for $b > 1$

See also logarithm functions for common fixed bases: [ln], [log10] and [log2].

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun log(x: Float, base: Float): Float = log(x.toDouble(), base.toDouble()).toFloat()

```

Computes the natural logarithm (base E) of the value [x].

Special cases:

- $\ln(\text{NaN})$ is NaN
- $\ln(x)$ is NaN when $x < 0.0$
- $\ln(+\text{Inf})$ is $+\text{Inf}$
- $\ln(0.0)$ is $-\text{Inf}$

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun ln(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()

```

Computes the common logarithm (base 10)

of the value [x].
`@see [ln] function for special cases.`
`actual inline fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()`
`* Computes the binary logarithm (base 2) of the value [x].`
`@see [ln] function for special cases.`
`actual inline fun log2(x: Float): Float =`
`nativeMath.log2(x.toDouble()).toFloat()`
`* Computes $\ln(a + 1)$.`
`This function can be implemented to produce more precise result for [x] near zero.`
`Special cases:`
 `$-\ln1p(\text{NaN})$ is NaN`
 `$-\ln1p(x)$ is NaN where $x < -1.0$`
 `$-\ln1p(-1.0)$ is $-\text{Inf}$`
 `$-\ln1p(+\text{Inf})$ is $+\text{Inf}$`
`@see [ln] function`
`@see [expm1] function`
`actual inline fun ln1p(x: Float): Float =`
`nativeMath.log1p(x.toDouble()).toFloat()`
`* Rounds the given value [x] to an integer towards positive infinity.`
`@return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.`
`Special cases:`
 `$-\text{ceil}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.`
`actual inline fun ceil(x: Float): Float =`
`nativeMath.ceil(x.toDouble()).toFloat()`
`* Rounds the given value [x] to an integer towards negative infinity.`
`@return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.`
`Special cases:`
 `$-\text{floor}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.`
`actual inline fun floor(x: Float): Float =`
`nativeMath.floor(x.toDouble()).toFloat()`
`* Rounds the given value [x] to an integer towards zero.`
`@return the value [x] having its fractional part truncated.`
`Special cases:`
 `$-\text{truncate}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.`
`actual inline fun truncate(x: Float): Float =`
`truncate(x.toDouble()).toFloat()`
`* Rounds the given value [x] towards the closest integer with ties rounded towards even integer.`
`Special cases:`
 `$-\text{round}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.`
`actual inline fun round(x: Float): Float =`
`round(x.toDouble()).toFloat()`
`* Returns the absolute value of the given value [x].`
`Special cases:`
 `$-\text{abs}(\text{NaN})$ is NaN`
`@see absoluteValue extension property for [Float]`
`actual inline fun abs(x: Float): Float =`
`nativeMath.abs(x.toDouble()).toFloat()`
`* Returns the sign of the given value [x]:`
 `-1.0 if the value is negative,`
`zero if the value is zero,`
 `1.0 if the value is positive`
`Special case:`
 `$-\text{sign}(\text{NaN})$ is NaN`
`actual inline fun sign(x: Float): Float =`
`nativeMath.sign(x.toDouble()).toFloat()`
`* Returns the smaller of two values.`
`If either value is NaN , then the result is NaN .`
`actual inline fun min(a: Float, b: Float): Float =`
`nativeMath.min(a, b)`
`* Returns the greater of two values.`
`If either value is NaN , then the result is NaN .`
`actual inline fun max(a: Float, b: Float): Float =`
`nativeMath.max(a, b)`
`// extensions`
`* Raises this value to the power [x].`
`Special cases:`
 `$-\text{b.pow}(0.0)$ is 1.0`
 `$-\text{b.pow}(1.0) == b$`
 `$-\text{b.pow}(\text{NaN})$ is NaN`
 `$-\text{NaN.pow}(x)$ is NaN for $x != 0.0$`
 `$-\text{b.pow}(\text{Inf})$ is NaN for $\text{abs}(b) == 1.0$`
 `$-\text{b.pow}(x)$ is NaN for $b < 0$ and x is finite and not an integer`
`actual inline fun Float.pow(x: Float): Float =`
`nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()`
`* Raises this value to the integer power [n].`
`See the other overload of [pow] for details.`
`actual inline fun Float.pow(n: Int): Float =`
`nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()`
`* Returns the absolute value of this value.`
`Special cases:`
 `$-\text{NaN.absoluteValue}$ is NaN`
`@see abs function`
`actual inline val Float.absoluteValue: Float get() =`
`nativeMath.abs(this.toDouble()).toFloat()`
`* Returns the sign of this value:`
 `-1.0 if the value is negative,`
`zero if the value is zero,`
 `1.0 if the value is positive`
`Special case:`
 `$-\text{NaN.sign}$ is NaN`
`actual inline val Float.sign: Float get() =`
`nativeMath.sign(this.toDouble()).toFloat()`
`* Returns this value with the sign bit same as of the [sign] value.`
`If [sign] is NaN the sign of the result is undefined.`
`actual inline fun Float.withSign(sign: Float): Float =`

```

this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n * Returns this value with the sign bit same as of the
[sign] value.\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Int): Float =
this.toDouble().withSign(sign.toDouble()).toFloat()\n\n\n/**\n * Rounds this [Float] value to the nearest integer and
converts the result to [Int].\n * Ties are rounded towards positive infinity.\n */\n * Special cases:\n * -
`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE`
when `x < Int.MIN_VALUE`\n */\n * @throws IllegalArgumentException when this value is `NaN`\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToInt(): Int =
toDouble().roundToInt()\n\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to
[Long].\n * Ties are rounded towards positive infinity.\n */\n * Special cases:\n * - `x.roundToLong() ==
Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE` when `x
< Long.MIN_VALUE`\n */\n * @throws IllegalArgumentException when this value is `NaN`\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToLong(): Long =
toDouble().roundToLong()\n\n\n// endregion\n\n// region ===== Integer Math
=====
\n\n\n/**\n * Returns the absolute value of the given value
[n].\n */\n * Special cases:\n * - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n */\n * @see
absoluteValue extension property for [Int]\n */\n// TODO: remove manual 'or' when KT-19290 is
fixed\n@SinceKotlin("1.2")\npublic actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n\n\n\n/**\n * Returns the
smaller of two values.\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Int, b: Int): Int =
nativeMath.min(a, b)\n\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a,
b)\n\n\n/**\n * Returns the absolute value of this value.\n */\n * Special cases:\n * -
`Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n */\n * @see abs function\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Int.absoluteValue: Int get() = abs(this)\n\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value
is positive\n */\n@SinceKotlin("1.2")\npublic actual val Int.sign: Int get() = when {\n this < 0 -> -1\n this > 0 -
> 1\n else -> 0\n}\n\n\n\n/**\n * Returns the absolute value of the given value [n].\n */\n * Special cases:\n * -
`abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n */\n * @see absoluteValue extension
property for [Long]\n */\n@SinceKotlin("1.2")\npublic actual fun abs(n: Long): Long = if (n < 0) -n else
n\n\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun min(a: Long, b:
Long): Long = if (a <= b) a else b\n\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun max(a: Long, b:
Long): Long = if (a >= b) a else b\n\n\n/**\n * Returns the absolute value of this value.\n */\n * Special cases:\n * -
`Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n */\n * @see abs function\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Long.absoluteValue: Long get() =
abs(this)\n\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value
is positive\n */\n@SinceKotlin("1.2")\npublic actual val Long.sign: Int get() = when {\n this
< 0 -> -1\n this > 0 -> 1\n else -> 0\n}\n\n\n// endregion\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\n/**\n * Returns `true` if the specified
number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n */\npublic actual fun Double.isNaN(): Boolean =
this != this\n\n\n/**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n
*/\npublic actual fun Float.isNaN(): Boolean = this != this\n\n\n/**\n * Returns `true` if this value is infinitely large in
magnitude.\n */\npublic actual fun Double.isInfinite(): Boolean = this == Double.POSITIVE_INFINITY || this ==
Double.NEGATIVE_INFINITY\n\n\n/**\n * Returns `true` if this value is infinitely large in magnitude.\n */\npublic
actual fun Float.isInfinite(): Boolean = this == Float.POSITIVE_INFINITY || this ==
Float.NEGATIVE_INFINITY\n\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns
`false` otherwise (for `NaN` and infinity arguments).\n */\npublic actual fun Double.isFinite(): Boolean =

```

```

!isInfinite() && !isNaN()\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns `false`
otherwise (for `NaN` and infinity arguments).\n\n^public actual fun Float.isFinite(): Boolean = !isInfinite() &&
!isNaN()\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n
*\n^@SinceKotlin("1.4")\n^@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.countOneBits(): Int {\n // Hacker's Delight 5-1 algorithm\n var v = this\n v = (v and 0x55555555) +
(v.ushr(1) and 0x55555555)\n v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)\n v = (v and 0x0F0F0F0F)
+ (v.ushr(4) and 0x0F0F0F0F)\n v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\n v = (v and
0x0000FFFF) + (v.ushr(16))\n return v}\n\n/**\n * Counts the number of consecutive most significant bits that
are zero in the binary representation of this [Int] number.\n
*\n^@SinceKotlin("1.4")\n^@WasExperimental(ExperimentalStdlibApi::class)\n^@kotlin.internal.InlineOnly\npubli
c actual inline fun Int.countLeadingZeroBits(): Int = JsMath.clz32(this)\n\n/**\n * Counts the number of
consecutive least significant bits that are zero in the binary representation of this [Int] number.\n
*\n^@SinceKotlin("1.4")\n^@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.countTrailingZeroBits(): Int =\n // Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with
countLeadingZeroBits\n Int.SIZE_BITS - (this or -this).inv().countLeadingZeroBits()\n\n/**\n * Returns a
number having a single bit set in the position of the most significant set bit of this [Int] number,\n * or zero, if this
number is zero.\n\n^@SinceKotlin("1.4")\n^@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.takeHighestOneBit(): Int =\n if (this == 0) 0 else 1.shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())\n\n/**\n *
Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\n * or
zero, if this number is zero.\n
*\n^@SinceKotlin("1.4")\n^@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.takeLowestOneBit(): Int =\n // Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\n this and -
this\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of
bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the
right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit
count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32)
returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n
*\n^@SinceKotlin("1.6")\n^@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.rotateLeft(bitCount: Int): Int =\n shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)\n\n/**\n * Rotates the
binary representation of this [Int] number right by the specified [bitCount] number of bits.\n * The least significant
bits pushed out from the right side reenter the number as the most significant bits on the left side.\n * Rotating
the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n
*\n^@SinceKotlin("1.6")\n^@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.rotateRight(bitCount: Int): Int =\n shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\n\n/**\n * Counts the
number of set bits in the binary representation of this [Long] number.\n
*\n^@SinceKotlin("1.4")\n^@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countOneBits(): Int =\n high.countOneBits() + low.countOneBits()\n\n/**\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [Long] number.\n
*\n^@SinceKotlin("1.4")\n^@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countLeadingZeroBits(): Int =\n when (val high = this.high) {\n 0 -> Int.SIZE_BITS +
low.countLeadingZeroBits()\n else -> high.countLeadingZeroBits()\n }\n\n/**\n * Counts the number of
consecutive least significant bits that are zero in the binary representation of this [Long] number.\n
*\n^@SinceKotlin("1.4")\n^@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countTrailingZeroBits(): Int =\n when (val low = this.low) {\n 0 -> Int.SIZE_BITS +
high.countTrailingZeroBits()\n else -> low.countTrailingZeroBits()\n }\n\n/**\n * Returns a number having a
single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is

```

```

zero.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.takeHighestOneBit(): Long =\n    when (val high = this.high) {\n        0 -> Long(low.takeHighestOneBit(),
0)\n        else -> Long(0, high.takeHighestOneBit())\n    }\n\n/**\n * Returns a number having a single bit set in the
position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.takeLowestOneBit(): Long =\n    when (val low = this.low) {\n        0 -> Long(0, high.takeLowestOneBit())\n        else -> Long(low.takeLowestOneBit(), 0)\n    }\n\n/**\n * Rotates the binary representation of this [Long]
number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side
reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit
count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) ==
number.rotateRight(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more
generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n *\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.rotateLeft(bitCount: Int): Long {\n    if ((bitCount and 31) != 0) {\n        val low = this.low\n        val high =
this.high\n        val newLow = low.shl(bitCount) or high.ushr(-bitCount)\n        val newHigh = high.shl(bitCount) or
low.ushr(-bitCount)\n        return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh,
newLow)\n    } else {\n        return if ((bitCount and 32) == 0) this else Long(high, low)\n    }\n}\n\n/**\n * Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n * The
least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n *\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\n\n"/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport
kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Exposes the JavaScript [Promise
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise) to Kotlin.\n *\n@Suppress("NOT_DOCUMENTED")\npublic open external class Promise<out T>(executor: (resolve: (T) ->
Unit, reject: (Throwable) -> Unit) -> Unit) {\n    @LowPriorityInOverloadResolution\n    public open fun <S>
then(onFulfilled: ((T) -> S)?): Promise<S>\n\n    @LowPriorityInOverloadResolution\n    public open fun <S>
then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>\n\n    public open fun <S>
catch(onRejected: (Throwable) -> S): Promise<S>\n\n    companion object {\n        public fun <S> all(promise:
Array<out Promise<S>>): Promise<Array<out S>>\n\n        public fun <S> race(promise: Array<out
Promise<S>>): Promise<S>\n\n        public fun reject(e: Throwable): Promise<Nothing>\n\n        public fun <S>
resolve(e: S): Promise<S>\n\n        public fun <S> resolve(e: Promise<S>): Promise<S>\n    }\n}\n\n// It's workaround
for KT-19672 since we can fix it properly until KT-11265 isn't fixed.\n\ninline fun <T, S>
Promise<Promise<T>>.then(\n    noinline onFulfilled: ((T) -> S)?\n): Promise<S> {\n    return
this.unsafeCast<Promise<T>>().then(onFulfilled)\n}\n\ninline fun <T, S> Promise<Promise<T>>.then(\n    noinline
onFulfilled: ((T) -> S)?,\n    noinline onRejected: ((Throwable) -> S)?\n): Promise<S> {\n    return
this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport
kotlin.math.pow\n\ninternal actual fun defaultPlatformRandom(): Random =\n    Random(js("Math.random() *
Math.pow(2, 32)) | 0").unsafeCast<Int>())\n\nprivate val INV_2_26: Double = 2.0.pow(-26)\nprivate val
INV_2_53: Double = 2.0.pow(-53)\n\ninternal actual fun doubleFromParts(hi26: Int, low27: Int): Double =\n    hi26 *
INV_2_26 + low27 * INV_2_53\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

```



```

license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\nimport findAssociatedObject\n\n/**\n * The
experimental marker for associated objects API.\n */\n * Any usage of a declaration annotated with
`@ExperimentalAssociatedObjects` must be accepted either by\n * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalAssociatedObjects::class)`,\n * or by using the compiler argument `-Xopt-
in=kotlin.reflect.ExperimentalAssociatedObjects`.\n */\n\n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n@Retention(value = AnnotationRetention.BINARY)\n\npublic annotation class
ExperimentalAssociatedObjects\n\n/**\n * Makes the annotated annotation class an associated object key.\n */\n *
An associated object key annotation should have single [KClass] parameter.\n * When applied to a class with
reference to an object declaration as an argument, it binds\n * the object to the class, making this binding
discoverable at runtime using [findAssociatedObject].\n\n
*/\n\n@ExperimentalAssociatedObjects\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.A
NNOTATION_CLASS)\n\npublic annotation class AssociatedObjectKey\n\n/**\n * If [T] is an
@[AssociatedObjectKey]-annotated annotation class and [this] class is annotated with @[T] (`S::class`),\n *
returns object `S`.\n */\n * Otherwise returns `null`.\n\n*/\n\n@ExperimentalAssociatedObjects\n\npublic inline fun <reified T :
Annotation> KClass<*>.findAssociatedObject(): Any? =\n    this.findAssociatedObject(T::class)", /*\n * Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport
getKClass\n\nimport kotlin.reflect.KClass\n\nimport kotlin.reflect.js.internal.KClassImpl\n\n/**\n * Represents the
constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a constructor reference.\n
*/\n\nexternal interface JsClass<T : Any> {\n    /**\n     * Returns the unqualified name of the class represented by
this instance.\n     *\n     * val name: String\n    }\n\n    /**\n     * Obtains a constructor reference for the given `KClass`.\n
*/\n\n    nval <T : Any> KClass<T>.js: JsClass<T>\n    get() = (this as KClassImpl<T>).jClass\n\n    /**\n     * Obtains a
`KClass` instance for the given constructor reference.\n     *\n     * nval <T : Any> JsClass<T>.kotlin: KClass<T>\n    get()
= getKClass(this)\n    ", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal abstract
class KClassImpl<T : Any>(\n    internal open val jClass: JsClass<T>\n) : KClass<T> {\n\n    override val
qualifiedName: String?\n    get() = TODO()\n\n    override fun equals(other: Any?): Boolean {\n        return other
is KClassImpl<*> && jClass == other.jClass\n    }\n\n    // TODO: use FQN\n    override fun hashCode(): Int =
simpleName?.hashCode() ?: 0\n\n    override fun toString(): String {\n        // TODO: use FQN\n        return "\"class
$simpleName\"\n    }\n\n    internal class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) :
KClassImpl<T>(jClass) {\n        override val simpleName: String? =
jClass.asDynamic().`$metadata$`.simpleName.unsafeCast<String?>()\n\n        override fun isInstance(value: Any?):
Boolean {\n            return jsIsType(value, jClass)\n        }\n\n        internal class PrimitiveKClassImpl<T : Any>(\n
jClass: JsClass<T>,\n        private val givenSimpleName: String,\n        private val isInstanceFunction: (Any?) ->
Boolean\n) : KClassImpl<T>(jClass) {\n            override fun equals(other: Any?): Boolean {\n                if (other !is
PrimitiveKClassImpl<*>) return false\n                return super.equals(other) && givenSimpleName ==
other.givenSimpleName\n            }\n\n            override val simpleName: String? get() = givenSimpleName\n\n            override fun
isInstance(value: Any?): Boolean {\n                return isInstanceFunction(value)\n            }\n\n            internal object
NothingKClassImpl : KClassImpl<Nothing>(js("Object")) {\n                override val simpleName: String =
\"Nothing\"\n\n                override fun isInstance(value: Any?): Boolean = false\n\n                override val jClass:
JsClass<Nothing>\n                get() = throw UnsupportedOperationException(\"There's no native JS class for Nothing
type\")\n\n                override fun equals(other: Any?): Boolean = other === this\n\n                override fun hashCode(): Int =
0\n            }\n\n            internal class ErrorKClass : KClass<Nothing> {\n                override val simpleName: String? get() =
error(\"Unknown simpleName for ErrorKClass\")\n\n                override val qualifiedName: String? get() = error(\"Unknown
qualifiedName for ErrorKClass\")\n\n                override fun isInstance(value: Any?): Boolean = error(\"Can's check
isInstance on ErrorKClass\")\n\n                override fun equals(other: Any?): Boolean = other === this\n\n                override fun
hashCode(): Int = 0\n            }\n    }, /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language

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contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\ninternal actual inline val KClass<*>.qualifiedOrSimpleName: String? \n get() = simpleName", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the module\n\n// TODO: Remove once JsReflectionAPICallChecker supports more reflection

```

types\n@file:Suppress("Unsupported")\n\nimport kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName("createKType")\n\ninternal fun createKType(\n classifier: KClassifier,\n arguments: Array<KTypeProjection>,\n isMarkedNullable: Boolean\n) =\n KTypeImpl(classifier,\n arguments.asList(), isMarkedNullable)\n\n@JsName("createDynamicKType")\n\ninternal fun createDynamicKType(): KType = DynamicKType\n\n@JsName("markKTypeNullable")\n\ninternal fun markKTypeNullable(kType: KType) = KTypeImpl(kType.classifier!!, kType.arguments,\n true)\n\n@JsName("createKTypeParameter")\n\ninternal fun createKTypeParameter(\n name: String,\n upperBounds: Array<KType>,\n variance: String\n): KTypeParameter {\n val kVariance = when (variance) {\n "in" -> KVariance.IN\n "out" -> KVariance.OUT\n else -> KVariance.INVARIANT\n }\n\n return KTypeParameterImpl(name, upperBounds.asList(), kVariance,\n false)\n}\n\n@JsName("getStarKTypeProjection")\n\ninternal fun getStarKTypeProjection(): KTypeProjection =\n KTypeProjection.STAR\n\n@JsName("createCovariantKTypeProjection")\n\ninternal fun createCovariantKTypeProjection(type: KType): KTypeProjection =\n KTypeProjection.covariant(type)\n\n@JsName("createInvariantKTypeProjection")\n\ninternal fun createInvariantKTypeProjection(type: KType): KTypeProjection =\n KTypeProjection.invariant(type)\n\n@JsName("createContravariantKTypeProjection")\n\ninternal fun createContravariantKTypeProjection(type: KType): KTypeProjection =\n KTypeProjection.contravariant(type)\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal class KTypeImpl(\n override val classifier: KClassifier,\n override val arguments: List<KTypeProjection>,\n override val isMarkedNullable: Boolean\n) : KType {\n override fun equals(other: Any?): Boolean =\n other is KTypeImpl &&\n classifier == other.classifier && arguments == other.arguments &&\n isMarkedNullable == other.isMarkedNullable\n\n override fun hashCode(): Int =\n (classifier.hashCode() * 31 + arguments.hashCode()) * 31 + isMarkedNullable.hashCode()\n\n override fun toString(): String {\n val kClass = (classifier as? KClass<*>)\n val classifierName = when {\n kClass == null -> classifier.toString()\n kClass.simpleName != null -> kClass.simpleName\n else -> "(non-denotable type)"\n }\n\n val args =\n if (arguments.isEmpty()) ""\n else arguments.joinToString(", ", "<", ">")\n\n val nullable = if (isMarkedNullable) "?" else ""\n\n return classifierName + args + nullable\n }\n\n // TODO: this should be the implementation of KTypeProjection.toString, see KT-30071\n private fun KTypeProjection.asString(): String {\n if (variance == null) return ""\n\n return variance.prefixString() + type.toString()\n }\n}\n\ninternal object DynamicKType : KType {\n override val classifier: KClassifier? = null\n override val arguments: List<KTypeProjection> = emptyList()\n override val isMarkedNullable: Boolean = false\n\n override fun toString(): String = "dynamic"\n}\n\ninternal fun KVariance.prefixString() =\n when (this) {\n KVariance.INVARIANT -> ""\n KVariance.IN -> "in "\n KVariance.OUT -> "out "\n }\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal data class KTypeParameterImpl(\n override val name: String,\n override val upperBounds: List<KType>,\n override val variance: KVariance,\n override val isReified: Boolean\n) : KTypeParameter {\n override fun toString(): String = name\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
```

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*\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.js.JsClass\n\n@JsName("PrimitiveClasses")\n\ninternal object PrimitiveClasses {\n    @JsName("anyClass")\n    val anyClass = PrimitiveKClassImpl(js("Object").unsafeCast<JsClass<Any>>(), "Any", { it is Any })\n\n    @JsName("numberClass")\n    val numberClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Number>>(), "Number", { it is Number })\n\n    @JsName("nothingClass")\n    val nothingClass = NothingKClassImpl\n\n    @JsName("booleanClass")\n    val booleanClass = PrimitiveKClassImpl(js("Boolean").unsafeCast<JsClass<Boolean>>(), "Boolean", { it is Boolean })\n\n    @JsName("byteClass")\n    val byteClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Byte>>(), "Byte", { it is Byte })\n\n    @JsName("shortClass")\n    val shortClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Short>>(), "Short", { it is Short })\n\n    @JsName("intClass")\n    val intClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Int>>(), "Int", { it is Int })\n\n    @JsName("floatClass")\n    val floatClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Float>>(), "Float", { it is Float })\n\n    @JsName("doubleClass")\n    val doubleClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Double>>(), "Double", { it is Double })\n\n    @JsName("arrayClass")\n    val arrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<Array<*>>>(), "Array", { it is Array<*> })\n\n    @JsName("stringClass")\n    val stringClass = PrimitiveKClassImpl(js("String").unsafeCast<JsClass<String>>(), "String", { it is String })\n\n    @JsName("throwableClass")\n    val throwableClass = PrimitiveKClassImpl(js("Error").unsafeCast<JsClass<Throwable>>(), "Throwable", { it is Throwable })\n\n    @JsName("booleanArrayClass")\n    val booleanArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<BooleanArray>>(), "BooleanArray", { it is BooleanArray })\n\n    @JsName("charArrayClass")\n    val charArrayClass = PrimitiveKClassImpl(js("Uint16Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray })\n\n    @JsName("byteArrayClass")\n    val byteArrayClass = PrimitiveKClassImpl(js("Int8Array").unsafeCast<JsClass<ByteArray>>(), "ByteArray", { it is ByteArray })\n\n    @JsName("shortArrayClass")\n    val shortArrayClass = PrimitiveKClassImpl(js("Int16Array").unsafeCast<JsClass<ShortArray>>(), "ShortArray", { it is ShortArray })\n\n    @JsName("intArrayClass")\n    val intArrayClass = PrimitiveKClassImpl(js("Int32Array").unsafeCast<JsClass<IntArray>>(), "IntArray", { it is IntArray })\n\n    @JsName("longArrayClass")\n    val longArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<LongArray>>(), "LongArray", { it is LongArray })\n\n    @JsName("floatArrayClass")\n    val floatArrayClass = PrimitiveKClassImpl(js("Float32Array").unsafeCast<JsClass<FloatArray>>(), "FloatArray", { it is FloatArray })\n\n    @JsName("doubleArrayClass")\n    val doubleArrayClass = PrimitiveKClassImpl(js("Float64Array").unsafeCast<JsClass<DoubleArray>>(), "DoubleArray", { it is DoubleArray })\n\n    @JsName("functionClass")\n    fun functionClass(arity: Int): KClassImpl<Any> {\n        return functionClasses.get(arity) ?: run {\n            val result = PrimitiveKClassImpl(js("Function").unsafeCast<JsClass<Any>>(), "Function$arity",\n                { jsTypeOf(it) === "function" && it.asDynamic().length === arity })\n            functionClasses.asDynamic()[arity] = result\n            result\n        }\n    }\n\n    private val functionClasses = arrayOfNulls<KClassImpl<Any>>(0), "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the module\n\nimport kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName("getKClass")\n\ninternal fun <T : Any> getKClass(jClass: Any /* JsClass<T> | Array<JsClass<T>> */): KClass<T> {\n    return if (js("Array").isArray(jClass)) {\n        getKClassM(jClass.unsafeCast<Array<JsClass<T>>>())\n    } else {\n        getKClass1(jClass.unsafeCast<JsClass<T>>())\n    }\n}\n\n@JsName("getKClassM")\n\ninternal fun <T : Any>

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getKClassM(jClasses: Array<JsClass<T>>): KClass<T> = when (jClasses.size) {\n  1 ->
getKClass1(jClasses[0])\n  0 -> NothingKClassImpl.unsafeCast<KClass<T>>()\n  else ->
ErrorKClass().unsafeCast<KClass<T>>()\n}\n\n@JsName("getKClassFromExpression")\ninternal fun <T : Any>
getKClassFromExpression(e: T): KClass<T> =\n  when (jsTypeOf(e)) {\n    "string" ->
PrimitiveClasses.stringClass\n    "number" -> if (jsBitwiseOr(e, 0).asDynamic() === e)
PrimitiveClasses.intClass else PrimitiveClasses.doubleClass\n    "boolean" -> PrimitiveClasses.booleanClass\n
"function" -> PrimitiveClasses.functionClass(e.asDynamic().length)\n    else -> {\n      when {\n        e
is BooleanArray -> PrimitiveClasses.booleanArrayClass\n        e is CharArray ->
PrimitiveClasses.charArrayClass\n        e is ByteArray -> PrimitiveClasses.byteArrayClass\n        e is
ShortArray -> PrimitiveClasses.shortArrayClass\n        e is IntArray -> PrimitiveClasses.intArrayClass\n
        e is LongArray -> PrimitiveClasses.longArrayClass\n        e is FloatArray ->
PrimitiveClasses.floatArrayClass\n        e is DoubleArray -> PrimitiveClasses.doubleArrayClass\n        e is
KClass<*> -> KClass::class\n        e is Array<*> -> PrimitiveClasses.arrayClass\n        else -> {\n
          val constructor = js("Object").getPrototypeOf(e).constructor\n          when {\n            constructor
=== js("Object") -> PrimitiveClasses.anyClass\n            constructor === js("Error") ->
PrimitiveClasses.throwableClass\n            else -> {\n              val jsClass: JsClass<T> =
constructor\n              getKClass1(jsClass)\n            }\n          }\n        }\n      }\n    }\n  }.unsafeCast<KClass<T>>()\n\n@JsName("getKClass1")\ninternal fun <T : Any> getKClass1(jClass:
JsClass<T>): KClass<T> {\n  if (jClass === js("String")) return
PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()\n\n  val metadata = jClass.asDynamic().`$metadata$\`\n\n
return if (metadata != null) {\n  if (metadata.`$kClass$\` == null) {\n    val kClass =
SimpleKClassImpl(jClass)\n    metadata.`$kClass$\` = kClass\n    kClass\n  } else {\n
metadata.`$kClass$\`\n  }\n } else {\n  SimpleKClassImpl(jClass)\n }\n},"/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Exposes
the JavaScript [RegExp
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/RegExp) to Kotlin.\n
*/\n\n@Suppress("NOT_DOCUMENTED")\npublic external class RegExp(pattern: String, flags: String? =
definedExternally) {\n\n  public fun test(str: String): Boolean\n\n  public fun exec(str: String): RegExpMatch?\n\n
  public override fun toString(): String\n\n  /**\n   * The lastIndex is a read/write integer property of regular
expressions that specifies the index at which to start the next match.\n   */\n\n  public var lastIndex: Int\n\n  public
val global: Boolean\n\n  public val ignoreCase: Boolean\n\n  public val multiline: Boolean\n}\n\n/**\n * Resets the
regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning
of the input string.\n */\n\npublic fun RegExp.reset() {\n  lastIndex = 0\n}\n\n// TODO: Inherit from array or
introduce asArray() extension\n\n/**\n * Represents the return value of [RegExp.exec].\n
*/\n\n@Suppress("NOT_DOCUMENTED")\npublic external interface RegExpMatch {\n\n  public val index: Int\n\n
  public val input: String\n\n  public val length: Int\n}\n\n/**\n * Returns the entire text matched by [RegExp.exec] if
the [index] parameter is 0, or the text matched by the capturing parenthesis\n * at the given index.\n */\n\npublic inline
fun RegExpMatch.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Converts the result of
[RegExp.exec] to an array where the first element contains the entire matched text and each subsequent\n * element
is the text matched by each capturing parenthesis.\n */\n\npublic inline fun RegExpMatch.asArray(): Array<out
String?> = unsafeCast<Array<out String?>>()\n},"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.sequences\n\ninternal actual class
ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {\n\n  private var
sequenceRef: Sequence<T>? = sequence\n\n  actual override fun iterator(): Iterator<T> {\n\n    val sequence =
sequenceRef ?: throw IllegalStateException("This sequence can be consumed only once.")\n\n    sequenceRef =
null\n\n    return sequence.iterator()\n  }\n}\n},"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin

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Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\npackage kotlin.text\n\n@SinceKotlin("1.5")\npublic actual enum
class CharCategory(internal val value: Int, public actual val code: String) {\n /**\n * General category '\nCn' in
the Unicode specification.\n *\n UNASSIGNED(0, '\nCn'),\n\n /**\n * General category '\Lu' in the
Unicode specification.\n *\n UPPERCASE_LETTER(1, '\Lu'),\n\n /**\n * General category '\Ll' in the
Unicode specification.\n *\n LOWERCASE_LETTER(2, '\Ll'),\n\n /**\n * General category '\Lt' in the
Unicode specification.\n *\n TITLECASE_LETTER(3, '\Lt'),\n\n /**\n * General category '\Lm' in the
Unicode specification.\n *\n MODIFIER_LETTER(4, '\Lm'),\n\n /**\n * General category '\Lo' in the
Unicode specification.\n *\n OTHER_LETTER(5, '\Lo'),\n\n /**\n * General category '\Mn' in the
Unicode specification.\n *\n NON_SPACING_MARK(6, '\Mn'),\n\n /**\n * General category '\Me' in
the Unicode specification.\n *\n ENCLOSING_MARK(7, '\Me'),\n\n /**\n * General category '\Mc' in
the Unicode specification.\n *\n COMBINING_SPACING_MARK(8, '\Mc'),\n\n /**\n * General
category '\Nd' in the Unicode specification.\n *\n DECIMAL_DIGIT_NUMBER(9, '\Nd'),\n\n /**\n *
General category '\Nl' in the Unicode specification.\n *\n LETTER_NUMBER(10, '\Nl'),\n\n /**\n *
General category '\No' in the Unicode specification.\n *\n OTHER_NUMBER(11, '\No'),\n\n /**\n *
General category '\Zs' in the Unicode specification.\n *\n SPACE_SEPARATOR(12, '\Zs'),\n\n /**\n *
General category '\Zl' in the Unicode specification.\n *\n LINE_SEPARATOR(13, '\Zl'),\n\n /**\n *
General category '\Zp' in the Unicode specification.\n *\n PARAGRAPH_SEPARATOR(14, '\Zp'),\n\n
/**\n * General category '\Cc' in the Unicode specification.\n *\n CONTROL(15, '\Cc'),\n\n /**\n *
General category '\Cf' in the Unicode specification.\n *\n FORMAT(16, '\Cf'),\n\n /**\n * General
category '\Co' in the Unicode specification.\n *\n PRIVATE_USE(18, '\Co'),\n\n /**\n * General
category '\Cs' in the Unicode specification.\n *\n SURROGATE(19, '\Cs'),\n\n /**\n * General category
'\Pd' in the Unicode specification.\n *\n DASH_PUNCTUATION(20, '\Pd'),\n\n /**\n * General
category '\Ps' in the Unicode specification.\n *\n START_PUNCTUATION(21, '\Ps'),\n\n /**\n *
General category '\Pe' in the Unicode specification.\n *\n END_PUNCTUATION(22, '\Pe'),\n\n /**\n *
General category '\Pc' in the Unicode specification.\n *\n CONNECTOR_PUNCTUATION(23, '\Pc'),\n\n
/**\n * General category '\Po' in the Unicode specification.\n *\n OTHER_PUNCTUATION(24,
'\Po'),\n\n /**\n * General category '\Sm' in the Unicode specification.\n *\n MATH_SYMBOL(25,
'\Sm'),\n\n /**\n * General category '\Sc' in the Unicode specification.\n *\n
CURRENCY_SYMBOL(26, '\Sc'),\n\n /**\n * General category '\Sk' in the Unicode specification.\n *\n
MODIFIER_SYMBOL(27, '\Sk'),\n\n /**\n * General category '\So' in the Unicode specification.\n *\n
OTHER_SYMBOL(28, '\So'),\n\n /**\n * General category '\Pi' in the Unicode specification.\n *\n
INITIAL_QUOTE_PUNCTUATION(29, '\Pi'),\n\n /**\n * General category '\Pf' in the Unicode
specification.\n *\n FINAL_QUOTE_PUNCTUATION(30, '\Pf');\n\n /**\n * Returns `true` if [char]
character belongs to this category.\n *\n public actual operator fun contains(char: Char): Boolean =
char.getCategoryValue() == this.value\n\n companion object {\n internal fun valueOf(category: Int):
CharCategory =\n when (category) {\n in 0..16 -> values()[category]\n in 18..30 ->
values()[category - 1]\n else -> throw IllegalArgumentException("\Category #\$category is not defined.")\n
}\n }\n\n"/\n */\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.text\n\n/**\n * The exception thrown when a character encoding or decoding error occurs.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual open class
CharacterCodingException(message: String?) : Exception(message) {\n actual constructor() : this(null)\n\n"/\n */\n
* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage
kotlin.text\n\n/**\n * A mutable sequence of characters.\n *\n * String builder can be used to efficiently perform
multiple string manipulation operations.\n *\n\npublic actual class StringBuilder actual constructor(content: String) :
Appendable, CharSequence {\n /**\n * Constructs an empty string builder with the specified initial [capacity].\n

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*\n * In Kotlin/JS implementation of StringBuilder the initial capacity has no effect on the further performance
of operations.\n *\n actual constructor(capacity: Int) : this() {\n }\n\n /** Constructs a string builder that
contains the same characters as the specified [content] char sequence. *\n actual constructor(content:
CharSequence) : this(content.toString()) {\n }\n\n /** Constructs an empty string builder. *\n actual constructor() :
this("")\n\n private var string: String = if (content !== undefined) content else ""\n\n actual override val
length: Int\n\n get() = string.asDynamic().length\n\n actual override fun get(index: Int): Char =\n
string.getOrElse(index) { throw IndexOutOfBoundsException("index: $index, length: $length")} }\n\n actual
override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)\n\n
actual override fun append(value: Char): StringBuilder {\n\n string += value\n\n return this\n }\n\n actual
override fun append(value: CharSequence?): StringBuilder {\n\n string += value.toString()\n\n return this\n
}\n\n actual override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value ?: "null", startIndex, endIndex)\n\n /**\n * Reverses the contents of this string builder
and returns this instance.\n *\n * Surrogate pairs included in this string builder are treated as single
characters.\n * Therefore, the order of the high-low surrogates is never reversed.\n *\n * Note that the reverse
operation may produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the
operation.\n * For example, reversing "\uDC00\uD800" produces "\uD800\uDC00" which is a valid
surrogate pair.\n *\n actual fun reverse(): StringBuilder {\n\n var reversed = ""\n\n var index =
string.length - 1\n\n while (index >= 0) {\n\n val low = string[index--]\n\n if (low.isLowSurrogate() &&
index >= 0) {\n\n val high = string[index--]\n\n if (high.isHighSurrogate()) {\n\n reversed =
reversed + high + low\n\n } else {\n\n reversed = reversed + low + high\n\n }\n\n }
else {\n\n reversed += low\n\n }\n\n }\n\n string = reversed\n\n return this\n }\n\n /**\n *
Appends the string representation of the specified object [value] to this string builder and returns this instance.\n
*\n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n
* and then that string was appended to this string builder.\n *\n actual fun append(value: Any?): StringBuilder
{\n\n string += value.toString()\n\n return this\n }\n\n /**\n * Appends the string representation of the
specified boolean [value] to this string builder and returns this instance.\n *\n * The overall effect is exactly as
if the [value] were converted to a string by the `value.toString()` method,\n * and then that string was appended to
this string builder.\n *\n @SinceKotlin("1.3")\n actual fun append(value: Boolean): StringBuilder {\n\n
string += value\n\n return this\n }\n\n /**\n * Appends characters in the specified character array [value] to
this string builder and returns this instance.\n *\n * Characters are appended in order, starting at the index 0.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun append(value:
CharArray): StringBuilder {\n\n string += value.concatToString()\n\n return this\n }\n\n
@Deprecated("Provided for binary compatibility.", level = DeprecationLevel.HIDDEN)\n fun append(value:
String): StringBuilder = append(value)\n\n /**\n * Appends the specified string [value] to this string builder and
returns this instance.\n *\n * If [value] is `null`, then the four characters `null` are appended.\n *\n
@SinceKotlin("1.3")\n actual fun append(value: String?): StringBuilder {\n\n this.string += value ?: "null"\n\n
return this\n }\n\n /**\n * Returns the current capacity of this string builder.\n *\n * The capacity is the
maximum length this string builder can have before an allocation occurs.\n *\n * In Kotlin/JS implementation
of StringBuilder the value returned from this method may not indicate the actual size of the backing storage.\n
*\n @SinceKotlin("1.3")\n // @ExperimentalStdlibApi\n @Deprecated("Obtaining StringBuilder capacity is
not supported in JS and common code.", level = DeprecationLevel.ERROR)\n actual fun capacity(): Int =
length\n\n /**\n * Ensures that the capacity of this string builder is at least equal to the specified
[minimumCapacity].\n *\n * If the current capacity is less than the [minimumCapacity], a new backing storage
is allocated with greater capacity.\n * Otherwise, this method takes no action and simply returns.\n *\n * In
Kotlin/JS implementation of StringBuilder the size of the backing storage is not extended to comply the given
[minimumCapacity].\n * thus calling this method has no effect on the further performance of operations.\n *\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun
ensureCapacity(minimumCapacity: Int) {\n\n }\n\n /**\n * Returns the index within this string builder of the

```

first occurrence of the specified [string].\n * Returns -1 if the specified [string] does not occur in this string builder.\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun indexOf(string: String): Int = this.string.asDynamic().indexOf(string)\n\n /**\n * Returns the index within this string builder of the first occurrence of the specified [string],\n * starting at the specified [startIndex].\n *\n * Returns -1 if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun indexOf(string: String, startIndex: Int): Int = this.string.asDynamic().indexOf(string, startIndex)\n\n /**\n * Returns the index within this string builder of the last occurrence of the specified [string].\n * The last occurrence of empty string "" is considered to be at the index equal to `this.length`.\n *\n * Returns -1 if the specified [string] does not occur in this string builder.\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun lastIndexOf(string: String): Int = this.string.asDynamic().lastIndexOf(string)\n\n /**\n * Returns the index within this string builder of the last occurrence of the specified [string],\n * starting from the specified [startIndex] toward the beginning.\n *\n * Returns -1 if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun lastIndexOf(string: String, startIndex: Int): Int {\n if (string.isEmpty() && startIndex < 0) return -1\n return this.string.asDynamic().lastIndexOf(string, startIndex)\n }\n\n /**\n * Inserts the string representation of the specified boolean [value] into this string builder at the specified [index] and returns this instance.\n *\n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this string builder at the specified [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: Boolean): String Builder {\n AbstractList.checkPositionIndex(index, length)\n string = string.substring(0, index) + value + string.substring(index)\n return this\n }\n\n /**\n * Inserts the specified character [value] into this string builder at the specified [index] and returns this instance.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: Char): String Builder {\n AbstractList.checkPositionIndex(index, length)\n string = string.substring(0, index) + value + string.substring(index)\n return this\n }\n\n /**\n * Inserts characters in the specified character array [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in same order as in the [value] character array, starting at [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: CharArray): String Builder {\n AbstractList.checkPositionIndex(index, length)\n string = string.substring(0, index) + value.concatToString() + string.substring(index)\n return this\n }\n\n /**\n * Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the character sequence from which characters are inserted. If [value] is `null`, then the four characters `\\null\\` are inserted.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: CharSequence?): String Builder {\n AbstractList.checkPositionIndex(index, length)\n string = string.substring(0, index) + value.toString() + string.substring(index)\n return this\n }\n\n /**\n * Inserts the string representation of the specified object [value] into this string builder at the specified [index] and returns this instance.\n *\n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this string builder at the specified [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.4")\n

```

@WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: Any?): StringBuilder {\n
    AbstractList.checkPositionIndex(index, length)\n\n    string = string.substring(0, index) + value.toString() +
string.substring(index)\n    return this\n }\n\n @Deprecated("Provided for binary compatibility.", level =
DeprecationLevel.HIDDEN)\n fun insert(index: Int, value: String): StringBuilder = insert(index, value)\n\n /**\n
 * Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n * \n * If
[value] is `null`, then the four characters `"\u0000\u0000\u0000\u0000"` are inserted.\n * \n * @throws IndexOutOfBoundsException
if [index] is less than zero or greater than the length of this string builder.\n * \n * @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: String?): StringBuilder
{\n    AbstractList.checkPositionIndex(index, length)\n\n    val toInsert = value ?: "\u0000\u0000\u0000\u0000"\n    this.string =
this.string.substring(0, index) + toInsert + this.string.substring(index)\n    return this\n }\n\n /**\n
 * Sets the length of this string builder to the specified [newLength].\n * \n * If the [newLength] is less than the current
length, it is changed to the specified [newLength].\n * \n * Otherwise, null characters '\u0000' are appended to this
string builder until its length is less than the [newLength].\n * \n * Note that in Kotlin/JS [set] operator function
has non-constant execution time complexity.\n * \n * Therefore, increasing length of this string builder and then
updating each character by index may slow down your program.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n * \n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun setLength(newLength:
Int) {\n    if (newLength < 0) {\n        throw IllegalArgumentException("Negative new length:
$newLength.")\n    }\n\n    if (newLength <= length) {\n        string = string.substring(0, newLength)\n    }
else {\n        for (i in length until newLength) {\n            string += "\u0000"\n        }\n    }\n }\n\n /**\n
 * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the
[length] (exclusive).\n * \n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater
than the length of this string builder.\n * \n * @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun substring(startIndex: Int): String {\n
    AbstractList.checkPositionIndex(startIndex, length)\n\n    return string.substring(startIndex)\n }\n\n /**\n
 * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the
[endIndex] (exclusive).\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * \n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun substring(startIndex:
Int, endIndex: Int): String {\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n\n    return
string.substring(startIndex, endIndex)\n }\n\n /**\n
 * Attempts to reduce storage used for this string builder.\n * \n * If the backing storage of this string builder is larger than necessary to hold its current contents,\n * then
it may be resized to become more space efficient.\n * \n * Calling this method may, but is not required to, affect the
value of the [capacity] property.\n * \n * In Kotlin/JS implementation of StringBuilder the size of the backing
storage is always equal to the length of the string builder.\n * \n * @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun trimToSize() {\n }\n\n override fun toString():
String = string\n\n /**\n
 * Clears the content of this string builder making it empty and returns this instance.\n * \n * @sample samples.text.Strings.clearStringBuilder\n * \n * @SinceKotlin("1.3")\n
public fun clear():
StringBuilder {\n    string = ""\n    return this\n }\n\n /**\n
 * Sets the character at the specified [index] to the specified [value].\n * \n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string
builder.\n * \n * @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public
operator fun set(index: Int, value: Char) {\n    AbstractList.checkElementIndex(index, length)\n\n    string =
string.substring(0, index) + value + string.substring(index + 1)\n }\n\n /**\n
 * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n * \n
 * @param startIndex the beginning (inclusive) of the range to replace.\n * \n * @param endIndex the end (exclusive)
of the range to replace.\n * \n * @param value the string to replace with.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length
of this string builder, or `startIndex > endIndex`.\n * \n * @SinceKotlin("1.4")\n

```



```

@WasExperimental(ExperimentalStdlibApi::class)\n public fun setRange(startIndex: Int, endIndex: Int, value:
String): StringBuilder {\n    checkReplaceRange(startIndex, endIndex, length)\n    this.string =
this.string.substring(0, startIndex) + value + this.string.substring(endIndex)\n    return this\n }\n\n private fun
checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {\n    if (startIndex < 0 || startIndex > length) {\n
    throw IndexOutOfBoundsException("\startIndex: $startIndex, length: $length")\n    }\n    if (startIndex >
endIndex) {\n    throw IllegalArgumentException("\startIndex($startIndex) > endIndex($endIndex)")\n    }\n
}\n\n /**\n * Removes the character at the specified [index] from this string builder and returns this instance.\n
*\n * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove
the entire supplementary character.\n *\n * @param index the index of `Char` to remove.\n *\n * @throws
IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n public fun deleteAt(index: Int): StringBuilder {\n
AbstractList.checkElementIndex(index, length)\n\n string = string.substring(0, index) + string.substring(index +
1)\n    return this\n }\n\n /**\n * Removes characters in the specified range from this string builder and
returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to remove.\n *
@param endIndex the end (exclusive) of the range to remove.\n *\n * @throws IndexOutOfBoundsException
or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex >
endIndex`.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun
deleteRange(startIndex: Int, endIndex: Int): StringBuilder {\n    checkReplaceRange(startIndex, endIndex,
length)\n\n string = string.substring(0, startIndex) + string.substring(endIndex)\n    return this\n }\n\n
/**\n * Copies characters from this string builder into the [destination] character array.\n *\n * @param
destination the array to copy to.\n * @param destinationOffset the position in the array to copy to, 0 by default.\n
* @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n * @param endIndex the end
(exclusive) of the range to copy, length of this string builder by default.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this
string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index
is out of the [destination] array indices range.\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n public fun toCharArray(destination: CharArray,
destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n
AbstractList.checkBoundsIndexes(destinationOffset, destinationOffset + endIndex - startIndex, destination.size)\n\n
var dstIndex = destinationOffset\n    for (index in startIndex until endIndex) {\n    destination[dstIndex++]
= string[index]\n    }\n\n /**\n * Appends characters in a subarray of the specified character array
[value] to this string builder and returns this instance.\n *\n * Characters are appended in order, starting at
specified [startIndex].\n *\n * @param value the array from which characters are appended.\n * @param
startIndex the beginning (inclusive) of the subarray to append.\n * @param endIndex the end (exclusive) of the
subarray to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n
*/\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun appendRange(value:
CharArray, startIndex: Int, endIndex: Int): StringBuilder {\n    string += value.concatToString(startIndex,
endIndex)\n    return this\n }\n\n /**\n * Appends a subsequence of the specified character sequence [value]
to this string builder and returns this instance.\n *\n * @param value the character sequence from which a
subsequence is appended.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n *
@param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n public fun appendRange(value: CharSequence, startIndex:
Int, endIndex: Int): StringBuilder {\n    val stringCsq = value.toString()\n

```


Int): `StringBuilder = this.deleteAt(index)`
 Removes characters in the specified range from this string builder and returns this instance.
 @param startIndex the beginning (inclusive) of the range to remove.
 @param endIndex the end (exclusive) of the range to remove.
 @throws `IndexOutOfBoundsException` or `IllegalArgumentException` when `[startIndex]` is out of range of this string builder indices or when `startIndex > endIndex``.
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 @Suppress("EXTENSION_SHA DOWED_BY_MEMBER", "NOTHING_TO_INLINE")
 public actual inline fun
`StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder = this.deleteRange(startIndex, endIndex)`
 Copies characters from this string builder into the `[destination]` character array.
 @param destination the array to copy to.
 @param destinationOffset the position in the array to copy to, 0 by default.
 @param startIndex the beginning (inclusive) of the range to copy, 0 by default.
 @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.
 @throws `IndexOutOfBoundsException` or `IllegalArgumentException` when `[startIndex]` or `[endIndex]` is out of range of this string builder indices or when `startIndex > endIndex``.
 @throws `IndexOutOfBoundsException` when the subrange doesn't fit into the `[destination]` array starting at the specified `[destinationOffset]`,
 or when that index is out of the `[destination]` array indices range.
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 @Suppress("EXTENSION_SHA DOWED_BY_MEMBER", "NOTHING_TO_INLINE", "ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
 public actual inline fun
`StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) = this.toCharArray(destination, destinationOffset, startIndex, endIndex)`
 Appends characters in a subarray of the specified character array `[value]` to this string builder and returns this instance.
 Characters are appended in order, starting at specified `[startIndex]`.
 @param value the array from which characters are appended.
 @param startIndex the beginning (inclusive) of the subarray to append.
 @param endIndex the end (exclusive) of the subarray to append.
 @throws `IndexOutOfBoundsException` or `IllegalArgumentException` when `[startIndex]` or `[endIndex]` is out of range of the `[value]` array indices or when `startIndex > endIndex``.
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 @Suppress("EXTENSION_SHA DOWED_BY_MEMBER", "NOTHING_TO_INLINE")
 public actual inline fun
`StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder = this.appendRange(value, startIndex, endIndex)`
 Appends a subsequence of the specified character sequence `[value]` to this string builder and returns this instance.
 @param value the character sequence from which a subsequence is appended.
 @param startIndex the beginning (inclusive) of the subsequence to append.
 @param endIndex the end (exclusive) of the subsequence to append.
 @throws `IndexOutOfBoundsException` or `IllegalArgumentException` when `[startIndex]` or `[endIndex]` is out of range of the `[value]` character sequence indices or when `startIndex > endIndex``.
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 @Suppress("EXTENSION_SHA DOWED_BY_MEMBER", "NOTHING_TO_INLINE")
 public actual inline fun
`StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder = this.appendRange(value, startIndex, endIndex)`
 Inserts characters in a subarray of the specified character array `[value]` into this string builder at the specified `[index]` and returns this instance.
 The inserted characters go in same order as in the `[value]` array, starting at `[index]`.
 @param index the position in this string builder to insert at.
 @param value the array from which characters are inserted.
 @param startIndex the beginning (inclusive) of the subarray to insert.
 @param endIndex the end (exclusive) of the subarray to insert.
 @throws `IndexOutOfBoundsException` or `IllegalArgumentException` when `[startIndex]` or `[endIndex]` is out of range of the `[value]` array indices or when `startIndex > endIndex``.
 @throws `IndexOutOfBoundsException` if `[index]` is less than zero or greater than the length of this string builder.
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 @Suppress("EXTENSION_SHA

```

DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n
this.insertRange(index, value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subsequence of the specified
character sequence [value] into this string builder at the specified [index] and returns this instance.\n * The
inserted characters go in the same order as in the [value] character sequence, starting at [index].\n * @param
index the position in this string builder to insert at.\n * @param value the character sequence from which a
subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the subsequence to insert.\n * @param
endIndex the end (exclusive) of the subsequence to insert.\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence
indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or
greater than the length of this string builder.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\n
this.insertRange(index, value, startIndex, endIndex)\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Returns `true` if the content of this
string is equal to the word `true`, ignoring case, and `false` otherwise.\n */\n@Deprecated("Use Kotlin compiler
1.4 to avoid deprecation warning.")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toBoolean(): Boolean =
this.toBoolean()\n\n/**\n * Returns `true` if this string is not `null` and its content is equal to the word `true`,
ignoring case, and `false` otherwise.\n */\n * There are also strict versions of the function available on non-nullable
String, [toBooleanStrict] and [toBooleanStrictOrNull].\n */\n@SinceKotlin("1.4")\npublic actual fun
String?.toBoolean(): Boolean = this != null && this.lowercase() == `true`\n\n/**\n * Parses the string as a signed
[Byte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\npublic actual fun String.toByte(): Byte = toByteOrNull() ?:
numberFormatError(this)\n\n/**\n * Parses the string as a signed [Byte] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun
String.toByte(radix: Int): Byte = toByteOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a
[Short] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\npublic actual fun String.toShort(): Short = toShortOrNull() ?:
numberFormatError(this)\n\n/**\n * Parses the string as a [Short] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun
String.toShort(radix: Int): Short = toShortOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as
an [Int] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\npublic actual fun String.toInt(): Int = toIntOrNull() ?:
numberFormatError(this)\n\n/**\n * Parses the string as an [Int] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun
String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Long]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n */\npublic actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)\n\n/**\n * Parses
the string as a [Long] number and returns the result.\n * @throws NumberFormatException if the string is not
a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for
string to number conversion.\n */\npublic actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?:
numberFormatError(this)\n\n/**\n * Parses the string as a [Double] number and returns the result.\n * @throws

```

NumberFormatException if the string is not a valid representation of a number.

```

public actual fun
String.toDouble(): Double = (+this.asDynamic()).unsafeCast<Double>().also {
    if (it.isNaN() && !this.isNaN()
        || it == 0.0 && this.isBlank())
        numberFormatError(this)
}
}

```

`toDouble()` Parses the string as a [Float] number and returns the result. @throws NumberFormatException if the string is not a valid representation of a number.

```

@kotlin.internal.InlineOnly
public actual inline fun String.toFloat(): Float =
toDouble().unsafeCast<Float>()
}

```

`toFloat()` Parses the string as a [Double] number and returns the result or `null` if the string is not a valid representation of a number.

```

public actual fun String.toDoubleOrNull(): Double? =
(+this.asDynamic()).unsafeCast<Double>().takeIf {
    !(it.isNaN() && !this.isNaN() || it == 0.0 &&
        this.isBlank())
}
}

```

`toDoubleOrNull()` Parses the string as a [Float] number and returns the result or `null` if the string is not a valid representation of a number.

```

@kotlin.internal.InlineOnly
public actual inline fun
String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()
}

```

`toFloatOrNull()` Returns a string representation of this [Byte] value in the specified [radix]. @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.

```

@SinceKotlin("1.2")
@kotlin.internal.InlineOnly
public actual
inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)
}

```

`Byte.toString(radix)` Returns a string representation of this [Short] value in the specified [radix]. @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.

```

@SinceKotlin("1.2")
@kotlin.internal.InlineOnly
public actual
inline fun Short.toString(radix: Int): String = this.toInt().toString(radix)
}

```

`Short.toString(radix)` Returns a string representation of this [Int] value in the specified [radix]. @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.

```

@SinceKotlin("1.2")
public actual fun Int.toString(radix: Int): String =
asDynamic().toString(checkRadix(radix))
private fun String.isNaN(): Boolean = when (this.lowercase()) {
    "nan", "+nan", "-nan" -> true
    else -> false
}
}

```

`Int.toString(radix)` Checks whether the given [radix] is valid radix for string to number and number to string conversion.

```

@PublishedApi
internal actual fun checkRadix(radix: Int):
Int {
    if (radix !in 2..36) {
        throw IllegalArgumentException("radix $radix was not in valid range 2..36")
    }
    return radix
}
internal actual fun digitOf(char: Char, radix: Int): Int = when {
    char >= '0' && char <= '9' -> char - '0'
    char >= 'A' && char <= 'Z' -> char - 'A' + 10
    char >= 'a' && char <= 'z' -> char - 'a' + 10
    char < "\u0080" -> -1
    char >= "\uFF21" && char <= "\uFF3A" -> char - "\uFF21" + 10 // full-width latin capital letter
    char >= "\uFF41" && char <= "\uFF5A" -> char - "\uFF41" + 10 // full-width latin small letter
    else -> char.digitToIntImpl()
}.let { if (it >= radix) -1 else it }
}

```

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```

package kotlin.text
import kotlin.js.RegExp

```

Provides enumeration values to use to set regular expression options.

```

public actual enum class RegexOptions(val value:
String) {
    /** Enables case-insensitive matching. */
    IGNORE_CASE("i"),
    /** Enables multiline mode.
     * In multiline mode the expressions `^` and `$` match just after or just before,
     * respectively, a line terminator or the end of the input sequence.
     */
    MULTILINE("m")
}
private fun
Iterable<RegexOption>.toFlags(prepend: String): String = joinToString("\", prefix = prepend) { it.value
}
}

```

`RegexOptions` Represents the results from a single capturing group within a [MatchResult] of [Regex].

```

@param value The value of captured group.
public actual data class MatchGroup(actual val value:
String)
}

```

`MatchGroup` Represents a compiled regular expression. Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches. For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions) and [http://www.w3schools.com/jsref/jsref_obj_regexp.asp](https://www.w3schools.com/jsref/jsref_obj_regexp.asp).

Note that `RegExp` objects under the hood are constructed with [the `u` flag](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp/unicode) that enables Unicode-related features in regular expressions. This also makes the pattern syntax more strict, for example, prohibiting unnecessary escape sequences.

```

@constructor Creates a regular expression from the
specified [pattern] string and the specified set of [options].
public actual class Regex actual

```

```

constructor(pattern: String, options: Set<RegexOption>) {\n\n  /** Creates a regular expression from the specified
  [pattern] string and the specified single [option]. */\n  public actual constructor(pattern: String, option:
  RegexOption) : this(pattern, setOf(option))\n\n  /** Creates a regular expression from the specified [pattern] string
  and the default options. */\n  public actual constructor(pattern: String) : this(pattern, emptySet())\n\n\n  /** The
  pattern string of this regular expression. */\n  public actual val pattern: String = pattern\n\n  /** The set of options
  that were used to create this regular expression. */\n  public actual val options: Set<RegexOption> =
  options.toSet()\n\n  private val nativePattern: RegExp = RegExp(pattern, options.toFlags("gu"))\n\n  private var
  nativeStickyPattern: RegExp? = null\n\n  private fun initStickyPattern(): RegExp =\n\n    nativeStickyPattern ?:
  RegExp(pattern, options.toFlags("yu")).also { nativeStickyPattern = it }\n\n\n  private var
  nativeMatchesEntirePattern: RegExp? = null\n\n  private fun initMatchesEntirePattern(): RegExp =\n\n    nativeMatchesEntirePattern ?: run {\n
    if (pattern.startsWith('^') && pattern.endsWith('$'))\n
    nativePattern\n
    else\n
    return RegExp("^${pattern.trimStart('^').trimEnd('$')}\$"),
    options.toFlags("gu"))\n
  }.also { nativeMatchesEntirePattern = it }\n\n\n  /** Indicates whether the regular
  expression matches the entire [input]. */\n  public actual infix fun matches(input: CharSequence): Boolean {\n
  nativePattern.reset()\n
  val match = nativePattern.exec(input.toString())\n
  return match != null &&
  match.index == 0 && nativePattern.lastIndex == input.length\n
}\n\n\n  /** Indicates whether the regular
  expression can find at least one match in the specified [input]. */\n  public actual fun containsMatchIn(input:
  CharSequence): Boolean {\n
  nativePattern.reset()\n
  return nativePattern.test(input.toString())\n
}\n\n\n  @SinceKotlin("1.5")\n  @ExperimentalStdlibApi\n  public actual fun matchesAt(input: CharSequence, index:
  Int): Boolean {\n
  if (index < 0 || index > input.length) {\n
  throw IndexOutOfBoundsException("index
  out of bounds: $index, input length: ${input.length}")\n
}\n
  val pattern = initStickyPattern()\n
  pattern.lastIndex = index\n
  return pattern.test(input.toString())\n
}\n\n\n  /**\n
  * Returns the first match of a
  regular expression in the [input], beginning at the specified [startIndex].\n
  *\n
  * @param startIndex An index to
  start search with, by default 0. Must be not less than zero and not greater than `input.length()`\n
  *\n
  * @return An
  instance of [MatchResult] if match was found or `null` otherwise.\n
  *\n
  * @throws IndexOutOfBoundsException if
  [startIndex] is less than zero or greater than the length of the [input] char sequence.\n
  *\n
  * @sample
  samples.text.Regexps.find\n
  */\n
  @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n
  public actual fun find(input:
  CharSequence, startIndex: Int = 0): MatchResult? {\n
  if (startIndex < 0 || startIndex > input.length) {\n
  throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length: ${input.length}")\n
}\n
  return nativePattern.findNext(input.toString(), startIndex, nativePattern)\n
}\n\n\n  /**\n
  * Returns a
  sequence of all occurrences of a regular expression within the [input] string, beginning at the specified
  [startIndex].\n
  *\n
  * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the
  length of the [input] char sequence.\n
  *\n
  * @sample samples.text.Regexps.findAll\n
  */\n
  @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n
  public actual fun findAll(input:
  CharSequence, startIndex: Int = 0): Sequence<MatchResult> {\n
  if (startIndex < 0 || startIndex > input.length)
  {\n
  throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length:
  ${input.length}")\n
}\n
  return generateSequence({ find(input, startIndex) }, { match -> match.next() })\n
}\n\n\n  /**\n
  * Attempts to match the entire [input] CharSequence against the pattern.\n
  *\n
  * @return An
  instance of [MatchResult] if the entire input matches or `null` otherwise.\n
  */\n
  public actual fun
  matchEntire(input: CharSequence): MatchResult? =\n
  initMatchesEntirePattern().findNext(input.toString(), 0,
  nativePattern)\n\n
  @SinceKotlin("1.5")\n
  @ExperimentalStdlibApi\n
  public actual fun matchAt(input:
  CharSequence, index: Int): MatchResult? {\n
  if (index < 0 || index > input.length) {\n
  throw
  IndexOutOfBoundsException("index out of bounds: $index, input length: ${input.length}")\n
}\n
  return
  initStickyPattern().findNext(input.toString(), index, nativePattern)\n
}\n\n\n  /**\n
  * Replaces all occurrences
  of this regular expression in the specified [input] string with specified [replacement] expression.\n
  *\n
  * The
  replacement string may contain references to the captured groups during a match. Occurrences of `\$index`\n
  *\n
  * In
  the replacement string will be substituted with the subsequences corresponding to the captured groups with the

```

specified index. The first digit after '\$' is always treated as part of group reference. Subsequent digits are incorporated into `index` only if they would form a valid group reference. Only the digits '0'..'9' are considered as potential components of the group reference. Note that indexes of captured groups start from 1, and the group with index 0 is the whole match.

Backslash character '\' can be used to include the succeeding character as a literal in the replacement string, e.g., `\\\$` or `\\|`. [Regex.escapeReplacement] can be used if [replacement] have to be treated as a literal string.

Note that referring named capturing groups by name is currently not supported in Kotlin/JS. However, you can still refer them by index.

@param input the char sequence to find matches of this regular expression in

@param replacement the expression to replace found matches with

@return the result of replacing each occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression

@throws RuntimeException if [replacement] expression is malformed, or capturing group with specified `name` or `index` does not exist

```

public actual fun
replace(input: CharSequence, replacement: String): String {
    if (!replacement.contains("\\|") &&
        !replacement.contains('$')) {
        return input.toString().nativeReplace(nativePattern, replacement)
    }
    return replace(input) { substituteGroupRefs(it, replacement) }
}

/**
 * Replaces all occurrences of this
 * regular expression in the specified [input] string with the result of
 * the given function [transform] that takes
 * [MatchResult] and returns a string to be used as a
 * replacement for that match.
 */
public actual fun
replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {
    var match = find(input)
    if (match == null) return input.toString()
    var lastStart = 0
    val length = input.length
    val sb =
        StringBuilder(length)
    do {
        val foundMatch = match!!
        sb.append(input, lastStart,
            foundMatch.range.start)
        sb.append(transform(foundMatch))
        lastStart =
            foundMatch.range.endInclusive + 1
        match = foundMatch.next()
    } while (lastStart < length && match
        != null)
    if (lastStart < length) {
        sb.append(input, lastStart, length)
    }
    return
        sb.toString()
}

/**
 * Replaces the first occurrence of this regular expression in the specified [input]
 * string with specified [replacement] expression.
 * The replacement string may contain references to the
 * captured groups during a match. Occurrences of `index`
 * in the replacement string will be substituted with the
 * subsequences corresponding to the captured groups with the specified index.
 * The first digit after '$' is always
 * treated as part of group reference. Subsequent digits are incorporated
 * into `index` only if they would form a
 * valid group reference. Only the digits '0'..'9' are considered as potential components
 * of the group reference.
 * Note that indexes of captured groups start from 1, and the group with index 0 is the whole match.
 * Backslash character '\' can be used to include the succeeding character as a literal in the replacement string, e.g., `\\$`
 * or `\\|`. [Regex.escapeReplacement] can be used if [replacement] have to be treated as a literal string.
 * Note that referring named capturing groups by name is not supported currently in Kotlin/JS.
 * However, you
 * can still refer them by index.
 * @param input the char sequence to find a match of this regular expression
 * in
 * @param replacement the expression to replace the found match with
 * @return the result of replacing
 * the first occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression
 * @throws RuntimeException if [replacement] expression is malformed, or capturing group with specified `name`
 * or `index` does not exist
 */
public actual fun replaceFirst(input: CharSequence, replacement: String): String
{
    if (!replacement.contains("\\|") && !replacement.contains('$')) {
        val nonGlobalOptions =
            options.toFlags("u")
        return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions),
            replacement)
    }
    val match = find(input) ?: return input.toString()
    return buildString {
        append(input.substring(0, match.range.first))
        append(substituteGroupRefs(match, replacement))
        append(input.substring(match.range.last + 1, input.length))
    }
}

/**
 * Splits the [input]
 * CharSequence to a list of strings around matches of this regular expression.
 * @param limit Non-negative
 * value specifying the maximum number of substrings the string can be split to.
 * Zero by default means no limit
 * is set.
 * @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
 */
public actual fun
split(input: CharSequence, limit: Int = 0): List<String> {
    requireNonNegativeLimit(limit)
    val matches =
        findAll(input).let { if (limit == 0) it else it.take(limit - 1) }
    val result = mutableListOf<String>()
    var
        lastStart = 0
    for (match in matches) {
        result.add(input.subSequence(lastStart,

```

```

match.range.start).toString())\n        lastStart = match.range.endInclusive + 1\n    }\n
result.add(input.subSequence(lastStart, input.length).toString())\n    return result\n }\n\n /**\n  * Splits the
[input] CharSequence to a sequence of strings around matches of this regular expression.\n  *\n  * @param limit
Non-negative value specifying the maximum number of substrings the string can be split to.\n  * Zero by default
means no limit is set.\n  * @sample samples.text.Regexp.splitToSequence\n  */\n @SinceKotlin("1.6")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public actual fun
splitToSequence(input: CharSequence, limit: Int = 0): Sequence<String> {\n
requireNonNegativeLimit(limit)\n    return sequence {\n        var match = find(input)\n        if (match ==
null || limit == 1) {\n            yield(input.toString())\n            return@sequence\n        }\n        var
nextStart = 0\n        var splitCount = 0\n        do {\n            val foundMatch = match!!\n
yield(input.substring(nextStart, foundMatch.range.first))\n            nextStart = foundMatch.range.endInclusive +
1\n            match = foundMatch.next()\n        } while (++splitCount != limit - 1 && match != null)\n
yield(input.substring(nextStart, input.length))\n    }\n }\n\n /**\n  * Returns the string representation of
this regular expression, namely the [pattern] of this regular expression.\n  *\n  * Note that another regular
expression constructed from the same pattern string may have different [options]\n  * and may match strings
differently.\n  */\n public override fun toString(): String = nativePattern.toString()\n\n actual companion object
{\n    /**\n     * Returns a regular expression that matches the specified [literal] string literally.\n     * No
characters of that string will have special meaning when searching for an occurrence of the regular expression.\n
*/\n    public actual fun fromLiteral(literal: String): Regex = Regex(escape(literal))\n\n    /**\n     * Returns a
regular expression pattern string that matches the specified [literal] string literally.\n     * No characters of that
string will have special meaning when searching for an occurrence of the regular expression.\n     */\n    public
actual fun escape(literal: String): String = literal.nativeReplace(patternEscape, "\\|\\|\\|&\\|")\n\n    /**\n     *
Returns a literal replacement expression for the specified [literal] string.\n     * No characters of that string will
have special meaning when it is used as a replacement string in [Regex.replace] function.\n     */\n    public
actual fun escapeReplacement(literal: String): String = literal.nativeReplace(replacementEscape, "\\|\\|\\|&\\|")\n\n
private val patternEscape = Regex("\\|\\|\\|\\|\\|^$*+?.()|[\\]{}\"'\\\\", "g")\n    private val replacementEscape =
Regex("\\|\\|\\|\\|\\|\"'\\\\", "g")\n\n    internal fun nativeEscapeReplacement(literal: String): String =
literal.nativeReplace(nativeReplacementEscape, "$$$$")\n    private val nativeReplacementEscape =
Regex("\\|\\|\\|\\|\\|\"'\\\\", "g")\n }\n }\n\n private fun Regex.findNext(input: String, from: Int, nextPattern:
Regex): MatchResult? {\n    this.lastIndex = from\n    val match = exec(input)\n    if (match == null) return null\n
val range = match.index..lastIndex - 1\n    return object : MatchResult {\n        override val range: IntRange =
range\n        override val value: String\n            get() = match[0]!\n        override val groups:
MatchGroupCollection = object : MatchGroupCollection, AbstractCollection<MatchGroup?>() {\n            override
val size: Int get() = match.length\n            override fun iterator(): Iterator<MatchGroup?> =
indices.asSequence().map { this[it] }.iterator()\n            override fun get(index: Int): MatchGroup? =
match[index]?.let { MatchGroup(it) }\n        }\n        private var groupValues_: List<String>? = null\n
override val groupValues: List<String>\n            get() {\n                if (groupValues_ == null) {\n
groupValues_ = object : AbstractList<String>() {\n                    override val size: Int get() = match.length\n
                    override fun get(index: Int): String = match[index] ? "\\|\\|\\|\\|\\|\"'\\\\" : ""\n                }\n
                    return groupValues_!!\n                }\n            override fun next(): MatchResult? =\n                nextPattern.findNext(input, if
(range.isEmpty()) range.start + 1 else range.endInclusive + 1, nextPattern)\n            }\n }\n\n // The same code from K/N
Regex.kt\n private fun substituteGroupRefs(match: MatchResult, replacement: String): String {\n    var index = 0\n
val result = StringBuilder(replacement.length)\n    while (index < replacement.length) {\n        val char =
replacement[index++]\n        if (char == "\\|\\|\\|\\|") {\n            if (index == replacement.length)\n                throw
IllegalArgumentException("The Char to be escaped is missing")\n            result.append(replacement[index++])\n
        } else if (char == '$') {\n            if (index == replacement.length)\n                throw
IllegalArgumentException("Capturing group index is missing")\n            if (replacement[index] == '{')\n

```



```

throw IllegalArgumentException("Named capturing group reference currently is not supported")\n        if
(replacement[index] !in '0'..'9')\n            throw IllegalArgumentException("Invalid capturing group
reference")\n        val endIndex = replacement.readGroupIndex(index, match.groupValues.size)\n        val
groupIndex = replacement.substring(index, endIndex).toInt()\n        if (groupIndex >=
match.groupValues.size)\n            throw IndexOutOfBoundsException("Group with index $groupIndex does not
exist")\n        result.append(match.groupValues[groupIndex])\n        index = endIndex\n    } else {\n
result.append(char)\n    }\n }\n return result.toString()\n}\n\nprivate fun String.readGroupIndex(startIndex:
Int, groupCount: Int): Int {\n    // at least one digit after '$' is always captured\n    var index = startIndex + 1\n    var
groupIndex = this[startIndex] - '0'\n    // capture the largest valid group index\n    while (index < length &&
this[index] in '0'..'9') {\n        val newGroupIndex = (groupIndex * 10) + (this[index] - '0')\n        if (newGroupIndex
in 0 until groupCount) {\n            groupIndex = newGroupIndex\n            index++\n        } else {\n            break\n
}\n    }\n    return index\n}", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n@file:Suppress("EXTENSI
ON_SHADOWED_BY_MEMBER")\n\npackage kotlin.text\n\nimport kotlin.contracts.*\n\n/**\n * A mutable
sequence of characters.\n *\n * String builder can be used to efficiently perform multiple string manipulation
operations.\n *\n * expect class StringBuilder : Appendable, CharSequence {\n    /** Constructs an empty string
builder.\n *\n    constructor()\n *\n    /** Constructs an empty string builder with the specified initial [capacity].\n *\n
constructor(capacity: Int)\n *\n    /** Constructs a string builder that contains the same characters as the specified
[content] char sequence.\n *\n    constructor(content: CharSequence)\n *\n    /** Constructs a string builder that
contains the same characters as the specified [content] string.\n *\n    @SinceKotlin("1.3")\n\n//
@ExperimentalStdlibApi\n    constructor(content: String)\n\n    override val length: Int\n\n    override operator fun
get(index: Int): Char\n\n    override fun subSequence(startIndex: Int, endIndex: Int): CharSequence\n\n    override
fun append(value: Char): StringBuilder\n    override fun append(value: CharSequence?): StringBuilder\n    override
fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder\n\n    /**\n     * Reverses the
contents of this string builder and returns this instance.\n     *\n     * Surrogate pairs included in this string builder
are treated as single characters.\n     * Therefore, the order of the high-low surrogates is never reversed.\n     *\n     *
Note that the reverse operation may produce new surrogate pairs that were unpaired low-surrogates and high-
surrogates before the operation.\n     * For example, reversing `"\uDC00\uD800"` produces `"\uD800\uDC00"`
which is a valid surrogate pair.\n     *\n     fun reverse(): StringBuilder\n     /**\n     * Appends the string
representation of the specified object [value] to this string builder and returns this instance.\n     *\n     * The overall
effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n     * and then that
string was appended to this string builder.\n     *\n     fun append(value: Any?): StringBuilder\n     /**\n     *
Appends the string representation of the specified boolean [value] to this string builder and returns this instance.\n
     *\n     * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n
     * and then that string was appended to this string builder.\n     *\n     @SinceKotlin("1.3")\n     fun append(value:
Boolean): StringBuilder\n     /**\n     * Appends characters in the specified character array [value] to this string
builder and returns this instance.\n     *\n     * Characters are appended in order, starting at the index 0.\n     *\n
     @SinceKotlin("1.4")\n     @WasExperimental(ExperimentalStdlibApi::class)\n     fun append(value: CharArray):
StringBuilder\n     /**\n     * Appends the specified string [value] to this string builder and returns this instance.\n
     *\n     * If [value] is `null`, then the four characters `"\u0000\u0000\u0000\u0000"` are appended.\n     *\n     @SinceKotlin("1.3")\n     fun
append(value: String?): StringBuilder\n     /**\n     * Returns the current capacity of this string builder.\n     *\n     *
The capacity is the maximum length this string builder can have before an allocation occurs.\n     *\n     @SinceKotlin("1.3")\n     //
@ExperimentalStdlibApi\n     @Deprecated("Obtaining StringBuilder capacity is not
supported in JS and common code.", level = DeprecationLevel.ERROR)\n     fun capacity(): Int\n     /**\n     *
Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].\n     *\n     * If
the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.\n

```

```

* Otherwise, this method takes no action and simply returns.\n    *\n    @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun ensureCapacity(minimumCapacity: Int)\n    /**\n     * Returns the index within this string builder of the first occurrence of the specified [string].\n     *\n     * Returns -1\n     * if the specified [string] does not occur in this string builder.\n     *\n     @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun indexOf(string: String): Int\n    /**\n     * Returns the\n     * index within this string builder of the first occurrence of the specified [string],\n     * starting at the specified\n     * [startIndex].\n     *\n     * Returns -1\n     * if the specified [string] does not occur in this string builder starting at the\n     * specified [startIndex].\n     *\n     @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun indexOf(string: String, startIndex: Int): Int\n    /**\n     * Returns the index within this string builder of the last\n     * occurrence of the specified [string].\n     * The last occurrence of empty string `""` is considered to be at the index\n     * equal to `this.length`.\n     *\n     * Returns -1\n     * if the specified [string] does not occur in this string builder.\n     *\n     @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun lastIndexOf(string: String):\n    Int\n    /**\n     * Returns the index within this string builder of the last occurrence of the specified [string],\n     * starting from the specified [startIndex] toward the beginning.\n     *\n     * Returns -1\n     * if the specified [string] does\n     * not occur in this string builder starting at the specified [startIndex].\n     *\n     @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun lastIndexOf(string: String, startIndex: Int): Int\n    /**\n     * Inserts the string representation of the specified boolean [value] into this string builder at the specified\n     * [index] and returns this instance.\n     *\n     * The overall effect is exactly as if the [value] were converted to a string\n     * by the `value.toString()` method,\n     * and then that string was inserted into this string builder at the specified\n     * [index].\n     *\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of\n     * this string builder.\n     *\n     @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun insert(index: Int, value: Boolean): StringBuilder\n    /**\n     * Inserts the specified character [value] into this\n     * string builder at the specified [index] and returns this instance.\n     *\n     * @throws IndexOutOfBoundsException\n     * if [index] is less than zero or greater than the length of this string builder.\n     *\n     @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun insert(index: Int, value: Char): StringBuilder\n    /**\n     * Inserts characters in the specified character array [value] into this string builder at the specified [index] and\n     * returns this instance.\n     *\n     * The inserted characters go in same order as in the [value] character array, starting\n     * at [index].\n     *\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length\n     * of this string builder.\n     *\n     @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun insert(index: Int, value: CharArray): StringBuilder\n    /**\n     * Inserts characters in the specified character\n     * sequence [value] into this string builder at the specified [index] and returns this instance.\n     *\n     * The inserted\n     * characters go in the same order as in the [value] character sequence, starting at [index].\n     *\n     * @param index\n     * the position in this string builder to insert at.\n     * @param value the character sequence from which characters are\n     * inserted. If [value] is `null`, then the four characters `"\u0000\u0000\u0000\u0000"` are inserted.\n     *\n     * @throws\n     * IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n     *\n     @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun insert(index: Int, value:\n    CharSequence?): StringBuilder\n    /**\n     * Inserts the string representation of the specified object [value] into\n     * this string builder at the specified [index] and returns this instance.\n     *\n     * The overall effect is exactly as if the\n     * [value] were converted to a string by the `value.toString()` method,\n     * and then that string was inserted into this\n     * string builder at the specified [index].\n     *\n     * @throws IndexOutOfBoundsException if [index] is less than\n     * zero or greater than the length of this string builder.\n     *\n     @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun insert(index: Int, value: Any?): StringBuilder\n    /**\n     * Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n     *\n     * If\n     * [value] is `null`, then the four characters `"\u0000\u0000\u0000\u0000"` are inserted.\n     *\n     * @throws IndexOutOfBoundsException\n     * if [index] is less than zero or greater than the length of this string builder.\n     *\n     @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun insert(index: Int, value: String?): StringBuilder\n    /**\n     * Sets the length of this string builder to the specified [newLength].\n     *\n     * If the [newLength] is less\n     * than the current length, it is changed to the specified [newLength].\n     * Otherwise, null characters `'\u0000'` are

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appended to this string builder until its length is less than the [newLength].\n * Note that in Kotlin/JS [set] operator function has non-constant execution time complexity.\n * Therefore, increasing length of this string builder and then updating each character by index may slow down your program.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun setLength(newLength: Int)\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex: Int): String\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex] (exclusive).\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex: Int, endIndex: Int): String\n /**\n * Attempts to reduce storage used for this string builder.\n *\n * If the backing storage of this string builder is larger than necessary to hold its current contents,\n * then it may be resized to become more space efficient.\n * Calling this method may, but is not required to, affect the value of the [capacity] property.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun trimToSize()\n}\n\n/**\n * Clears the content of this string builder making it empty and returns this instance.\n *\n * @sample samples.text.Strings.clearStringBuilder\n */\n @SinceKotlin("1.3")\n public expect fun StringBuilder.clear(): StringBuilder\n /**\n * Sets the character at the specified [index] to the specified [value].\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect operator fun StringBuilder.set(index: Int, value: Char)\n /**\n * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to replace.\n * @param endIndex the end (exclusive) of the range to replace.\n * @param value the string to replace with.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder\n /**\n * Removes the character at the specified [index] from this string builder and returns this instance.\n *\n * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n *\n * @param index the index of `Char` to remove.\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect fun StringBuilder.deleteAt(index: Int): StringBuilder\n /**\n * Removes characters in the specified range from this string builder and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to remove.\n * @param endIndex the end (exclusive) of the range to remove.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect fun StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder\n /**\n * Copies characters from this string builder into the [destination] character array.\n *\n * @param destination the array to copy to.\n * @param destinationOffset the position in the array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n */\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
this.length)\n\n**\n * Appends characters in a subarray of the specified character array [value] to this string builder
and returns this instance.\n *\n * Characters are appended in order, starting at specified [startIndex].\n *\n * @param
value the array from which characters are appended.\n * @param startIndex the beginning (inclusive) of the
subarray to append.\n * @param endIndex the end (exclusive) of the subarray to append.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] array indices or when `startIndex > endIndex`.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n**\n * Appends a
subsequence of the specified character sequence [value] to this string builder and returns this instance.\n *\n *
@param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning
(inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n
*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of the [value] character sequence indices or when `startIndex > endIndex`.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder\n\n**\n * Inserts
characters in a subarray of the specified character array [value] into this string builder at the specified [index] and
returns this instance.\n *\n * The inserted characters go in same order as in the [value] array, starting at [index].\n
*\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters
are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the
end (exclusive) of the subarray to insert.\n *\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when
`startIndex > endIndex`.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the
length of this string builder.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n**\n *
Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified
[index] and returns this instance.\n *\n * The inserted characters go in the same order as in the [value] character
sequence, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value
the character sequence from which a subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the
subsequence to insert.\n * @param endIndex the end (exclusive) of the subsequence to insert.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.\n *\n * @throws IndexOutOfBoundsException if
[index] is less than zero or greater than the length of this string builder.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int):
StringBuilder\n\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\n@Deprecated("Use
append(value: Any?) instead", ReplaceWith("append(value = obj)"),
DeprecationLevel.WARNING)\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.append(obj: Any?):
StringBuilder = this.append(obj)\n\n**\n * Builds new string by populating newly created [StringBuilder] using
provided [builderAction]\n * and then converting it to [String].\n *\n@kotlin.internal.InlineOnly\npublic inline fun
buildString(builderAction: StringBuilder.() -> Unit): String {\n    contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) }\n    return StringBuilder().apply(builderAction).toString()\n}\n\n**\n *
Builds new string by populating newly created [StringBuilder] initialized with the given [capacity]\n * using
provided [builderAction] and then converting it to [String].\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun buildString(capacity: Int, builderAction:
StringBuilder.() -> Unit): String {\n    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE)

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}\n return StringBuilder(capacity).apply(builderAction).toString()\n}\n\n/**\n * Appends all arguments to the
given StringBuilder.\n */\npublic fun StringBuilder.append(vararg value: String?): StringBuilder {\n for (item in
value)\n append(item)\n return this\n}\n\n/**\n * Appends all arguments to the given StringBuilder.\n
*/\npublic fun StringBuilder.append(vararg value: Any?): StringBuilder {\n for (item in value)\n
append(item)\n return this\n}\n\n/**\n * Appends a line feed character (`\n`) to this StringBuilder.
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine():
StringBuilder = append("\n")\n\n/**\n * Appends [value] to this [StringBuilder], followed by a line feed character
(`\n`).\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value:
CharSequence?): StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value] to this [StringBuilder],
followed by a line feed character (`\n`).\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: String?): StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value] to
this [StringBuilder], followed by a line feed character (`\n`).\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value: Any?):
StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value] to this [StringBuilder], followed by a line feed
character (`\n`).\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: CharArray): StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value]
to this [StringBuilder], followed by a line feed character (`\n`).\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value: Char):
StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value] to this [StringBuilder], followed by a line feed
character (`\n`).\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: Boolean): StringBuilder = append(value).appendLine()\n\n\n/*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\nimport
kotlin.js.RegExp\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeIndexOf(ch: Char,
fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual
inline fun String.nativeLastIndexOf(ch: Char, fromIndex: Int): Int = nativeLastIndexOf(ch.toString(),
fromIndex)\n\n/**\n * Returns `true` if this string starts with the specified prefix.\n */\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase)\n return
nativeStartsWith(prefix, 0)\n else\n return regionMatches(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n *
Returns `true` if a substring of this string starting at the specified offset [startIndex] starts with the specified prefix.\n */\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase)\n
return nativeStartsWith(prefix, startIndex)\n else\n return regionMatches(startIndex, prefix, 0, prefix.length,
ignoreCase)\n}\n\n/**\n * Returns `true` if this string ends with the specified suffix.\n */\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase)\n return
nativeEndsWith(suffix)\n else\n return regionMatches(length - suffix.length, suffix, 0, suffix.length,
ignoreCase)\n}\n\n@Deprecated("Use Regex.matches() instead",
ReplaceWith("regex.toRegex().matches(this)"))\n@DeprecatedSinceKotlin(warningSince = "1.6")\npublic fun
String.matches(regex: String): Boolean {\n @Suppress("DEPRECATION")\n val result = this.match(regex)\n
return result != null && result.size != 0\n}\n\n/**\n * Returns `true` if this string is empty or consists solely of
whitespace characters.\n */\n * @sample samples.text.Strings.stringIsBlank\n */\npublic actual fun
CharSequence.isBlank(): Boolean = length == 0 || indices.all { this[it].isWhitespace() }\n\n/**\n * Returns `true` if
this string is equal to [other], optionally ignoring character case.\n */\n * Two strings are considered to be equal if
they have the same length and the same character at the same index.\n * If [ignoreCase] is true, the result of
`Char.toUpperCaseChar().toLowerCaseChar()` on each character is compared.\n */\n * @param ignoreCase `true` to ignore
character case when comparing strings. By default `false`.\n

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*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
String?.equals(other: String?, ignoreCase: Boolean = false): Boolean {
    if (this == null) return other == null
    if (other == null) return false
    if (!ignoreCase) return this == other
    if (this.length != other.length) return
    false
    for (index in 0 until this.length) {
        val thisChar = this[index]
        val otherChar = other[index]
        if (!thisChar.equals(otherChar, ignoreCase)) {
            return false
        }
    }
    return
    true
}
\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase:
Boolean = false): Boolean =
    regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)
\n\n/**
Returns a copy of this string having its first letter titlecased using the rules of the default locale,
or the original
string if it's empty or already starts with a title case letter.
The title case of a character is usually the same as
its upper case with several exceptions.
The particular list of characters with the special title case form depends
on the underlying platform.
@sample samples.text.Strings.capitalize
*\n@Deprecated("Use
replaceFirstChar instead.", ReplaceWith("replaceFirstChar { it.titlecase() } else it.toString()
"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic actual fun String.capitalize(): String {
    return if
(isNotEmpty()) substring(0, 1).uppercase() + substring(1) else this
}
\n\n/**
Returns a copy of this string having
its first letter lowercased using the rules of the default locale,
or the original string if it's empty or already starts
with a lower case letter.
@sample samples.text.Strings.decapitalize
*\n@Deprecated("Use
replaceFirstChar instead.", ReplaceWith("replaceFirstChar { it.lowercase()
}"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic actual fun String.decapitalize(): String {
    return
if (isNotEmpty()) substring(0, 1).lowercase() + substring(1) else this
}
\n\n/**
Returns a string containing this
char sequence repeated [n] times.
@throws [IllegalArgumentException] when n < 0.
@sample
samples.text.Strings.repeat
*\n\npublic actual fun CharSequence.repeat(n: Int): String {
    require(n >= 0) {
        "Count 'n' must be non-negative, but was $n."
    }
    return when (n) {
        0 -> ""
        1 -> this.toString()
        else -> {
            var result = ""
            if (!isEmpty()) {
                var s = this.toString()
                var count =
n
                while (true) {
                    if ((count and 1) == 1) {
                        result += s
                    }
                    count = count ushr 1
                    if (count == 0) {
                        break
                    }
                    s +=
s
                }
            }
            return result
        }
    }
}
\n\n/**
Returns a new string obtained by
replacing all occurrences of the [oldValue] substring in this string
with the specified [newValue] string.
@sample samples.text.Strings.replace
*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =
    nativeReplace(Regex(Regex.escape(oldValue), if (ignoreCase) "gui" else "gu"),
    Regex.nativeEscapeReplacement(newValue))
\n\n/**
Returns a new string with all occurrences of [oldChar]
replaced with [newChar].
@sample samples.text.Strings.replace
*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =
    nativeReplace(Regex(Regex.escape(oldChar.toString()), if (ignoreCase) "gui" else "gu"),
    newChar.toString())
\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual
fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =
    nativeReplace(Regex(Regex.escape(oldValue), if (ignoreCase) "ui" else "u"),
    Regex.nativeEscapeReplacement(newValue))
\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGU
MENTS")\npublic actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false):
String =
    nativeReplace(Regex(Regex.escape(oldChar.toString()), if (ignoreCase) "ui" else "u"),
    newChar.toString())
}
\n\n/**
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contributors.
Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.
*\n\npackage kotlin.text
\n\n/**
Returns the negative [size] if [throwOnMalformed] is
false, throws [CharacterCodingException] otherwise.
*\nprivate fun malformed(size: Int, index: Int,
throwOnMalformed: Boolean): Int {
    if (throwOnMalformed) throw CharacterCodingException("Malformed

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sequence starting at  $\$(index - 1)\)$  return -size\n\n\n/**\n * Returns code point corresponding to UTF-16
surrogate pair,\n * where the first of the pair is the [high] and the second is in the [string] at the [index].\n * Returns
zero if the pair is malformed and [throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the
pair is malformed and [throwOnMalformed] is true.\n *\nprivate fun codePointFromSurrogate(string: String, high:
Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n    if (high !in 0xD800..0xDBFF || index >=
endIndex) {\n        return malformed(0, index, throwOnMalformed)\n    }\n    val low = string[index].code\n    if
(low !in 0xDC00..0xDFFF) {\n        return malformed(0, index, throwOnMalformed)\n    }\n    return 0x10000 +
((high and 0x3FF) shl 10) or (low and 0x3FF)\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of
two bytes,\n * where the first byte of the sequence is the [byte1] and the second byte is in the [bytes] array at the
[index].\n * Returns zero if the sequence is malformed and [throwOnMalformed] is false.\n *\n * @throws
CharacterCodingException if the sequence of two bytes is malformed and [throwOnMalformed] is true.\n
*\nprivate fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed:
Boolean): Int {\n    if (byte1 and 0x1E == 0 || index >= endIndex) {\n        return malformed(0, index,
throwOnMalformed)\n    }\n    val byte2 = bytes[index].toInt()\n    if (byte2 and 0xC0 != 0x80) {\n        return
malformed(0, index, throwOnMalformed)\n    }\n    return (byte1 shl 6) xor byte2 xor 0xF80\n}\n\n/**\n * Returns
code point corresponding to UTF-8 sequence of three bytes,\n * where the first byte of the sequence is the [byte1]
and the others are in the [bytes] array starting from the [index].\n * Returns a non-positive value indicating number
of bytes from [bytes] included in malformed sequence\n * if the sequence is malformed and [throwOnMalformed] is
false.\n *\n * @throws CharacterCodingException if the sequence of three bytes is malformed and
[throwOnMalformed] is true.\n *\nprivate fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex:
Int, throwOnMalformed: Boolean): Int {\n    if (index >= endIndex) {\n        return malformed(0, index,
throwOnMalformed)\n    }\n    val byte2 = bytes[index].toInt()\n    if (byte1 and 0xF == 0) {\n        if (byte2 and
0xE0 != 0xA0) {\n            // Non-shortest form\n            return malformed(0, index, throwOnMalformed)\n        }\n    }
else if (byte1 and 0xF == 0xD) {\n        if (byte2 and 0xE0 != 0x80) {\n            // Surrogate code point\n
return malformed(0, index, throwOnMalformed)\n        }\n    } else if (byte2 and 0xC0 != 0x80) {\n        return
malformed(0, index, throwOnMalformed)\n    }\n    if (index + 1 == endIndex) {\n        return malformed(1, index,
throwOnMalformed)\n    }\n    val byte3 = bytes[index + 1].toInt()\n    if (byte3 and 0xC0 != 0x80) {\n        return
malformed(1, index, throwOnMalformed)\n    }\n    return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -
0x1E080\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of four bytes,\n * where the first byte
of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns a non-
positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is
malformed and [throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the sequence of four
bytes is malformed and [throwOnMalformed] is true.\n *\nprivate fun codePointFrom4(bytes: ByteArray, byte1:
Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n    if (index >= endIndex) {\n        malformed(0,
index, throwOnMalformed)\n    }\n    val byte2 = bytes[index].toInt()\n    if (byte1 and 0xF == 0x0) {\n        if
(byte2 and 0xF0 <= 0x80) {\n            // Non-shortest form\n            return malformed(0, index,
throwOnMalformed)\n        }\n    } else if (byte1 and 0xF == 0x4) {\n        if (byte2 and 0xF0 != 0x80) {\n            //
Out of Unicode code points domain (larger than U+10FFFF)\n            return malformed(0, index,
throwOnMalformed)\n        }\n    } else if (byte1 and 0xF > 0x4) {\n        return malformed(0, index,
throwOnMalformed)\n    } else if (byte2 and 0xC0 != 0x80) {\n        return malformed(0, index,
throwOnMalformed)\n    }\n    if (index + 1 == endIndex) {\n        return malformed(1, index,
throwOnMalformed)\n    }\n    val byte3 = bytes[index + 1].toInt()\n    if (byte3 and 0xC0 != 0x80) {\n        return
malformed(1, index, throwOnMalformed)\n    }\n    if (index + 2 == endIndex) {\n        return malformed(2, index,
throwOnMalformed)\n    }\n    val byte4 = bytes[index + 2].toInt()\n    if (byte4 and 0xC0 != 0x80) {\n        return
malformed(2, index, throwOnMalformed)\n    }\n    return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor
byte4 xor 0x381F80\n}\n\n/**\n * Maximum number of bytes needed to encode a single char.\n *\n * Code points in
`0..0x7F` are encoded in a single byte.\n * Code points in `0x80..0x7FF` are encoded in two bytes.\n * Code points
in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\n * Surrogate code points in

```

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`0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\n * Code points in
`0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\n */\nprivate
const val MAX_BYTES_PER_CHAR = 3\n\n/**\n * The byte sequence a malformed UTF-16 char sequence is
replaced by.\n */\nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(),
0xBF.toByte(), 0xBD.toByte())\n\n/**\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\n
*\n * @param string the string to encode.\n * @param startIndex the start offset (inclusive) of the substring to
encode.\n * @param endIndex the end offset (exclusive) of the substring to encode.\n * @param
throwOnMalformed whether to throw on malformed char sequence or replace by the
[REPLACEMENT_BYTE_SEQUENCE].\n *\n * @throws CharacterCodingException if the char sequence is
malformed and [throwOnMalformed] is true.\n */\ninternal fun encodeUtf8(string: String, startIndex: Int, endIndex:
Int, throwOnMalformed: Boolean): ByteArray {\n    require(startIndex >= 0 && endIndex <= string.length &&
startIndex <= endIndex)\n    val bytes = ByteArray((endIndex - startIndex) * MAX_BYTES_PER_CHAR)\n    var
byteIndex = 0\n    var charIndex = startIndex\n    while (charIndex < endIndex) {\n        val code =
string[charIndex++].code\n        when {\n            code < 0x80 -> {\n                bytes[byteIndex++] = code.toByte()\n
            }\n            code < 0x800 -> {\n                bytes[byteIndex++] = ((code shr 6) or 0xC0).toByte()\n
            }\n            code < 0xD800 || code >= 0xE000 -> {\n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n
            }\n            code < 0xD800 || code >= 0xE000 -> {\n                bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\n
            }\n            code < 0xD800 || code >= 0xE000 -> {\n                bytes[byteIndex++] = (((code shr 6)
and 0x3F) or 0x80).toByte()\n            }\n            code < 0xD800 || code >= 0xE000 -> {\n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n
            }\n            else -> { // Surrogate char value\n                val codePoint = codePointFromSurrogate(string, code, charIndex,
endIndex, throwOnMalformed)\n                if (codePoint <= 0) {\n                    bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[0]\n                    bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[1]\n                    bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[2]\n                } else {\n                    bytes[byteIndex++] = ((codePoint shr
18) or 0xF0).toByte()\n                    bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n
                    bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n                    bytes[byteIndex++] =
((codePoint and 0x3F) or 0x80).toByte()\n                    charIndex++\n                }\n            }\n        }\n    }\n    return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n}\n\n/**\n * The character a malformed
UTF-8 byte sequence is replaced by.\n */\nprivate const val REPLACEMENT_CHAR = "\\uFFFD"\n\n/**\n *
Decodes the UTF-8 [bytes] array and returns the resulting [String].\n *\n * @param bytes the byte array to decode.\n
*\n * @param startIndex the start offset (inclusive) of the array to be decoded.\n * @param endIndex the end offset
(exclusive) of the array to be encoded.\n * @param throwOnMalformed whether to throw on malformed byte
sequence or replace by the [REPLACEMENT_CHAR].\n *\n * @throws CharacterCodingException if the array is
malformed UTF-8 byte sequence and [throwOnMalformed] is true.\n */\ninternal fun decodeUtf8(bytes: ByteArray,
startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {\n    require(startIndex >= 0 && endIndex <=
bytes.size && startIndex <= endIndex)\n    var byteIndex = startIndex\n    val stringBuilder = StringBuilder()\n    while (byteIndex < endIndex) {\n        val byte = bytes[byteIndex++].toInt()\n        when {\n            byte >= 0 -> {\n
                stringBuilder.append(byte.toChar())\n            }\n            byte shr 5 == -2 -> {\n                val code =
codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n                if (code <= 0) {\n
                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n
                    stringBuilder.append(code.toChar())\n                    byteIndex += 1\n                }\n            }\n            byte shr 4 == -2 -
> {\n                val code = codePointFrom3(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n                if
(code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n
                } else {\n                    stringBuilder.append(code.toChar())\n                    byteIndex += 2\n                }\n            }\n            byte shr 3 == -2 -> {\n                val code = codePointFrom4(bytes, byte, byteIndex, endIndex,
throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n
                    byteIndex += -code\n                } else {\n                    val high = (code - 0x10000) shr 10 or 0xD800\n
                    val low = (code and 0x3FF) or 0xDC00\n                    stringBuilder.append(high.toChar())\n
                    stringBuilder.append(low.toChar())\n                    byteIndex += 3\n                }\n            }\n            else -> {\n

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    malformed(0, byteIndex, throwOnMalformed)\n        stringBuilder.append(REPLACEMENT_CHAR)\n
}\n    }\n    }\n\n    return stringBuilder.toString()\n}", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *^\n\npackage kotlin\n\n/**\n * Returns the detailed description of this
throwable with its stack trace.\n *\n * The detailed description includes:\n * - the short description (see
[Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of the exceptions
that were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed description of
each throwable in the [Throwable.cause] chain.\n *^\n\n@SinceKotlin("1.4")\n\npublic actual fun
Throwable.stackTraceToString(): String = ExceptionTraceBuilder().buildFor(this)\n\n/**\n * Prints the [detailed
description][Throwable.stackTraceToString] of this throwable to console error output.\n
*\n\n@SinceKotlin("1.4")\n\npublic actual fun Throwable.printStackTrace() {\n
console.error(this.stackTraceToString())\n}\n\n/**\n * Adds the specified exception to the list of exceptions that
were\n * suppressed in order to deliver this exception.\n *\n\n@SinceKotlin("1.4")\n\npublic actual fun
Throwable.addSuppressed(exception: Throwable) {\n    if (this !== exception) {\n        val suppressed =
this.asDynamic()._suppressed.unsafeCast<MutableList<Throwable>?>()\n        if (suppressed == null) {\n
this.asDynamic()._suppressed = mutableListOf(exception)\n        } else {\n            suppressed.add(exception)\n
}\n    }\n}\n\n/**\n * Returns a list of all exceptions that were suppressed in order to deliver this exception.\n
*\n\n@SinceKotlin("1.4")\n\npublic actual val Throwable.suppressedExceptions: List<Throwable>\n    get() {\n
return this.asDynamic()._suppressed?.unsafeCast<List<Throwable>>() ?: emptyList()\n    }\n\nprivate class
ExceptionTraceBuilder {\n    private val target = StringBuilder()\n    private val visited = arrayOf<Throwable>()\n
private var topStack: String = ""\n    private var topStackStart: Int = 0\n    fun buildFor(exception: Throwable):
String {\n        exception.dumpFullTrace("", "")\n        return target.toString()\n    }\n    private fun
hasSeen(exception: Throwable): Boolean = visited.any { it === exception }\n    private fun
Throwable.dumpFullTrace(indent: String, qualifier: String) {\n        this.dumpSelfTrace(indent, qualifier) ||
return\n\n        var cause = this.cause\n        while (cause != null) {\n            cause.dumpSelfTrace(indent,
"Caused by: ") || return\n            cause = cause.cause\n        }\n    }\n    private fun Throwable.dumpSelfTrace(indent:
String, qualifier: String): Boolean {\n        target.append(indent).append(qualifier)\n        val shortInfo =
this.toString()\n        if (hasSeen(this)) {\n            target.append("[CIRCULAR REFERENCE, SEE ABOVE:
").append(shortInfo).append("\\n\\n")\n            return false\n        }\n        visited.asDynamic().push(this)\n\n        var
stack = this.asDynamic().stack as String?\n        if (stack != null) {\n            val stackStart =
stack.indexOf(shortInfo).let { if (it < 0) 0 else it + shortInfo.length }\n            if (stackStart == 0)\n                target.append(shortInfo).append("\\n\\n")\n            if (topStack.isEmpty()) {\n                topStack = stack\n
topStackStart = stackStart\n            } else {\n                stack = dropCommonFrames(stack, stackStart)\n            }\n
            if (indent.isNotEmpty()) {\n                // indent stack, but avoid indenting exception message lines\n                val
messageLines = if (stackStart == 0) 0 else 1 + shortInfo.count { c -> c == '\\n' }\n                stack.lineSequence().forEachIndexed { index: Int, line: String -> }\n                if (index >= messageLines)\n                    target.append(indent)\n                    target.append(line).append("\\n\\n")\n                } else {\n                    target.append(stack).append("\\n\\n")\n                }\n            } else {\n                target.append(shortInfo).append("\\n\\n")\n            }\n\n            val suppressed = suppressedExceptions\n            if (suppressed.isNotEmpty()) {\n                val
suppressedIndent = indent + "  "\n                for (s in suppressed) {\n                    s.dumpFullTrace(suppressedIndent,
"Suppressed: ")\n                }\n            }\n            return true\n        }\n    }\n    private fun dropCommonFrames(stack: String,
stackStart: Int): String {\n        var commonFrames: Int = 0\n        var lastBreak: Int = 0\n        var preLastBreak: Int
= 0\n        for (pos in 0 until minOf(topStack.length - topStackStart, stack.length - stackStart)) {\n            val c =
stack[stack.lastIndex - pos]\n            if (c != topStack[topStack.lastIndex - pos]) break\n            if (c == '\\n') {\n
                commonFrames += 1\n                preLastBreak = lastBreak\n                lastBreak = pos\n            }\n        }\n
        if (commonFrames <= 1) return stack\n        while (preLastBreak > 0 && stack[stack.lastIndex - (preLastBreak - 1)]
== '\\n')\n            preLastBreak -= 1\n        // leave 1 common frame to ease matching with the top exception stack\n
return stack.dropLast(preLastBreak) + "... and ${commonFrames - 1} more common stack frames skipped"\n
}

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}\n},"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.time\n\nimport kotlin.js.json\nimport kotlin.math.*\n\ninternal actual inline val
durationAssertionsEnabled: Boolean get() = true\n\ninternal actual fun formatToExactDecimals(value: Double,
decimals: Int): String {\n    val rounded = if (decimals == 0) {\n        value\n    } else {\n        val pow =
10.0.pow(decimals)\n        JsMath.round(abs(value) * pow) / pow * sign(value)\n    }\n    return if (abs(rounded) <
1e21) {\n        // toFixed switches to scientific format after 1e21\n
rounded.asDynamic().toFixed(decimals).unsafeCast<String>()\n    } else {\n        // toPrecision outputs the specified
number of digits, but only for positive numbers\n        val positive = abs(rounded)\n        val positiveString =
positive.asDynamic().toPrecision(ceil(log10(positive)) + decimals).unsafeCast<String>()\n        if (rounded < 0) \"-
$positiveString\" else positiveString\n    }\n}\n\ninternal actual fun formatUpToDecimals(value: Double, decimals:
Int): String {\n    return value.asDynamic().toLocaleString(\"en-us\", json(\"maximumFractionDigits\" to
decimals)).unsafeCast<String>()\n}\n},"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage
kotlin.time\n\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\n\npublic actual enum class
DurationUnit(internal val scale: Double) {\n    /**\n     * Time unit representing one nanosecond, which is 1/1000 of
a microsecond.\n     */\n    NANOSECONDS(1e0),\n    /**\n     * Time unit representing one microsecond, which is
1/1000 of a millisecond.\n     */\n    MICROSECONDS(1e3),\n    /**\n     * Time unit representing one millisecond,
which is 1/1000 of a second.\n     */\n    MILLISECONDS(1e6),\n    /**\n     * Time unit representing one second.\n
*/\n    SECONDS(1e9),\n    /**\n     * Time unit representing one minute.\n     */\n    MINUTES(60e9),\n    /**\n
     * Time unit representing one hour.\n     */\n    HOURS(3600e9),\n    /**\n     * Time unit representing one day,
which is always equal to 24 hours.\n     */\n    DAYS(86400e9);\n}\n\n@SinceKotlin(\"1.3\")\n\ninternal actual fun
convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {\n    val
sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n    return when {\n
sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)\n        sourceCompareTarget < 0 -> value /
(targetUnit.scale / sourceUnit.scale)\n        else -> value\n    }\n}\n\n@SinceKotlin(\"1.5\")\n\ninternal actual fun
convertDurationUnitOverflow(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long {\n    val
sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n    return when {\n
sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale).toLong()\n        sourceCompareTarget < 0
-> value / (targetUnit.scale / sourceUnit.scale).toLong()\n        else -> value\n    }\n}\n\n@SinceKotlin(\"1.5\")\n\ninternal actual fun convertDurationUnit(value: Long, sourceUnit: DurationUnit,
targetUnit: DurationUnit): Long {\n    val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n
return when {\n        sourceCompareTarget > 0 -> {\n            val scale = (sourceUnit.scale /
targetUnit.scale).toLong()\n            val result = value * scale\n            when {\n                result / scale == value ->
result\n                value > 0 -> Long.MAX_VALUE\n                else -> Long.MIN_VALUE\n            }\n        }\n
sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale).toLong()\n        else -> value\n    }\n}\n}\n\n},"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.time\n\nimport org.w3c.performance.GlobalPerformance\nimport
org.w3c.performance.Performance\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n\ninternal actual object
MonotonicTimeSource : TimeSource {\n    private val actualSource: TimeSource = run {\n        val isNode:
Boolean = js(\"typeof process !== 'undefined' && process.versions && !!process.versions.node\")\n        if
(isNode)\n            HrTimeSource(js(\"process\").unsafeCast<Process>())\n        else\n            js(\"self\").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceTimeSource)\n        ?:\n        DateNowTimeSource\n    }\n\n    override fun markNow(): TimeMark = actualSource.markNow()\n}\n\ninternal
external interface Process {\n    fun hrtime(time: Array<Double> = definedExternally):
Array<Double>\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n\ninternal class HrTimeSource(val process:

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Process) : TimeSource {
    override fun markNow(): TimeMark = object : TimeMark() {
        val startedAt = process.hrtime()
        override fun elapsedNow(): Duration =
            process.hrtime(startedAt).let { (seconds, nanos) -> seconds.toDuration(DurationUnit.SECONDS) + nanos.toDuration(DurationUnit.NANOSECONDS) }
    }
    override fun toString(): String =
        "\"TimeSource(process.hrtime())\""
}
@SinceKotlin("1.3")
@ExperimentalTime
internal class PerformanceTimeSource(val performance: Performance) : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {
    override fun read(): Double = performance.now()
    override fun toString(): String = "\"TimeSource(self.performance.now())\""
}
@SinceKotlin("1.3")
@ExperimentalTime
internal object DateNowTimeSource : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {
    override fun read(): Double = kotlin.js.Date.now()
    override fun toString(): String = "\"TimeSource(Date.now())\""
}
/*
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 */
package kotlinx.dom
import org.w3c.dom.*
import kotlin.contracts.*
/**
 * Creates a new element with the specified [name].
 * The element is initialized with the specified [init] function.
 */
@SinceKotlin("1.4")
public fun Document.createElement(name: String, init: Element.() -> Unit): Element {
    contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }
    return createElement(name).apply(init)
}
/**
 * Appends a newly created element with the specified [name] to this element.
 * The element is initialized with the specified [init] function.
 */
@SinceKotlin("1.4")
public fun Element.appendChild(name: String, init: Element.() -> Unit): Element {
    contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }
    return ownerDocument!!.createElement(name, init).also {
        appendChild(it)
    }
}
/*
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 */
package kotlinx.dom
import org.w3c.dom.*
/**
 * Returns true if the element has the given CSS class style in its 'class' attribute
 */
@SinceKotlin("1.4")
fun Element.hasClass(cssClass: String): Boolean = className.matches("\\s*(\\s+)$cssClass(\\s+.*\\s*)".toRegex())
/**
 * Adds CSS class to element. Has no effect if all specified classes are already in class attribute of the element
 */
@return true if at least one class has been added
@SinceKotlin("1.4")
fun Element.addClass(vararg cssClasses: String): Boolean {
    val missingClasses = cssClasses.filterNot { hasClass(it) }
    if (missingClasses.isNotEmpty()) {
        val presentClasses = className.trim()
        className = buildString {
            append(presentClasses)
            if (!presentClasses.isEmpty()) {
                append(" ")
            }
            missingClasses.joinTo(this, " ")
        }
        return true
    }
    return false
}
/**
 * Removes all [cssClasses] from element. Has no effect if all specified classes are missing in class attribute of the element
 */
@return true if at least one class has been removed
@SinceKotlin("1.4")
fun Element.removeClass(vararg cssClasses: String): Boolean {
    if (cssClasses.any { hasClass(it) }) {
        val toBeRemoved = cssClasses.toSet()
        className = className.trim().split("\\s+".toRegex()).filter { it !in toBeRemoved }.joinToString(" ")
        return true
    }
    return false
}
}
/*
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 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")
package kotlinx.text
/**
 * Converts the string into a regular expression [Regex] with the default options.
 */
@kotlin.internal.InlineOnly
public inline fun String.toRegex(): Regex = Regex(this)
/**
 * Converts the string into a regular expression [Regex] with the specified single [option].
 */
@kotlin.internal.InlineOnly
public inline fun String.toRegex(option: RegexOption): Regex = Regex(this, option)
/**
 * Converts the string into a regular expression [Regex] with the specified set of [options].
 */
@kotlin.internal.InlineOnly
public inline fun String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)
}
/*
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 */
package kotlinx.dom
import org.w3c.dom.*
/**
 * Gets a value indicating whether this node is a TEXT_NODE or a
 */

```

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CDATA_SECTION_NODE.\n *\n@SinceKotlin("1.4")\npublic val Node.isText: Boolean\n    get() = nodeType == Node.TEXT_NODE || nodeType == Node.CDATA_SECTION_NODE\n\n/**\n * Gets a value indicating whether this node is an [Element].\n *\n@SinceKotlin("1.4")\npublic val Node.isElement: Boolean\n    get() = nodeType == Node.ELEMENT_NODE\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n@package kotlinx.dom\n\nimport org.w3c.dom.*\n\n/** Removes all the children from this node.\n *\n@SinceKotlin("1.4")\npublic fun Node.clear() {\n    while (hasChildNodes()) {\n        removeChild(firstChild!)\n    }\n}\n\n/**\n * Creates text node and append it to the element.\n *\n@return this element\n *\n@SinceKotlin("1.4")\nfun Element.appendText(text: String): Element {\n    appendChild(ownerDocument!!.createTextNode(text))\n    return this\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n@package org.w3c.dom\n\n@Deprecated("Use UnionMessagePortOrWindowProxy instead.", ReplaceWith("UnionMessagePortOrWindowProxy"))\ntypealias UnionMessagePortOrWindow = UnionMessagePortOrWindowProxy\n\n@Deprecated("Use `as` instead.", ReplaceWith("`as`"))\nvar HTMLLinkElement.as_\n    get() = `as`\n    set(value) {\n        `as` = value\n    }\n\n@Deprecated("Use `is` instead.", ReplaceWith("`is`"))\nvar ElementCreationOptions.is_\n    get() = `is`\n    set(value) {\n        `is` = value\n    }\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n@package org.khronos.webgl\n\nimport kotlin.js.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface WebGLContextAttributes {\n    var alpha: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var depth: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var stencil: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var antialias: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var premultipliedAlpha: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var preserveDrawingBuffer: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var preferLowPowerToHighPerformance: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var failIfMajorPerformanceCaveat: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun WebGLContextAttributes(alpha: Boolean? = true, depth: Boolean? = true, stencil: Boolean? = false, antialias: Boolean? = true, premultipliedAlpha: Boolean? = true, preserveDrawingBuffer: Boolean? = false, preferLowPowerToHighPerformance: Boolean? = false, failIfMajorPerformanceCaveat: Boolean? = false): WebGLContextAttributes {\n    val o = js("{}")\n    o["alpha"] = alpha\n    o["depth"] = depth\n    o["stencil"] = stencil\n    o["antialias"] = antialias\n    o["premultipliedAlpha"] = premultipliedAlpha\n    o["preserveDrawingBuffer"] = preserveDrawingBuffer\n    o["preferLowPowerToHighPerformance"] = preferLowPowerToHighPerformance\n    o["failIfMajorPerformanceCaveat"] = failIfMajorPerformanceCaveat\n    return o\n}\n\npublic external abstract class WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin\n *\n@package kotlinx.dom\n\npublic external abstract class WebGLBuffer : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin\n *\n@package kotlinx.dom\n\npublic external abstract class WebGLFramebuffer : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin\n *\n@package kotlinx.dom\n\npublic external abstract class WebGLProgram : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin\n *\n@package kotlinx.dom\n\npublic external abstract class WebGLRenderbuffer : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin\n *\n@package kotlinx.dom\n\npublic external

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abstract class WebGLShader : WebGLObject\n\n**\n * Exposes the JavaScript
[WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\n *\npublic external
abstract class WebGLTexture : WebGLObject\n\n**\n * Exposes the JavaScript
[WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin\n
*\npublic external abstract class WebGLUniformLocation\n\n**\n * Exposes the JavaScript
[WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin\n *\npublic
external abstract class WebGLActiveInfo {\n  open val size: Int\n  open val type: Int\n  open val name:
String\n}\n\n**\n * Exposes the JavaScript
[WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to
Kotlin\n *\npublic external abstract class WebGLShaderPrecisionFormat {\n  open val rangeMin: Int\n  open val
rangeMax: Int\n  open val precision:
Int\n}\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
WebGLRenderingContextBase {\n  val canvas: HTMLCanvasElement\n  val drawingBufferWidth: Int\n  val
drawingBufferHeight: Int\n  fun getContextAttributes(): WebGLContextAttributes?\n  fun isContextLost():
Boolean\n  fun getSupportedExtensions(): Array<String>?\n  fun getExtension(name: String): dynamic\n  fun
activeTexture(texture: Int)\n  fun attachShader(program: WebGLProgram?, shader: WebGLShader?)\n  fun
bindAttribLocation(program: WebGLProgram?, index: Int, name: String)\n  fun bindBuffer(target: Int, buffer:
WebGLBuffer?)\n  fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)\n  fun
bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)\n  fun bindTexture(target: Int, texture:
WebGLTexture?)\n  fun blendColor(red: Float, green: Float, blue: Float, alpha: Float)\n  fun
blendEquation(mode: Int)\n  fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)\n  fun
blendFunc(sfactor: Int, dfactor: Int)\n  fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha:
Int)\n  fun bufferData(target: Int, size: Int, usage: Int)\n  fun bufferData(target: Int, data: BufferDataSource?,
usage: Int)\n  fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?)\n  fun
checkFramebufferStatus(target: Int): Int\n  fun clear(mask: Int)\n  fun clearColor(red: Float, green: Float, blue:
Float, alpha: Float)\n  fun clearDepth(depth: Float)\n  fun clearStencil(s: Int)\n  fun colorMask(red: Boolean,
green: Boolean, blue: Boolean, alpha: Boolean)\n  fun compileShader(shader: WebGLShader?)\n  fun
compressedTexImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data:
ArrayBufferView)\n  fun compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int,
height: Int, format: Int, data: ArrayBufferView)\n  fun copyTexImage2D(target: Int, level: Int, internalformat: Int,
x: Int, y: Int, width: Int, height: Int, border: Int)\n  fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int,
yoffset: Int, x: Int, y: Int, width: Int, height: Int)\n  fun createBuffer(): WebGLBuffer?\n  fun createFramebuffer():
WebGLFramebuffer?\n  fun createProgram(): WebGLProgram?\n  fun createRenderbuffer():
WebGLRenderbuffer?\n  fun createShader(type: Int): WebGLShader?\n  fun createTexture(): WebGLTexture?\n
fun cullFace(mode: Int)\n  fun deleteBuffer(buffer: WebGLBuffer?)\n  fun deleteFramebuffer(framebuffer:
WebGLFramebuffer?)\n  fun deleteProgram(program: WebGLProgram?)\n  fun deleteRenderbuffer(renderbuffer:
WebGLRenderbuffer?)\n  fun deleteShader(shader: WebGLShader?)\n  fun deleteTexture(texture:
WebGLTexture?)\n  fun depthFunc(func: Int)\n  fun depthMask(flag: Boolean)\n  fun depthRange(zNear: Float,
zFar: Float)\n  fun detachShader(program: WebGLProgram?, shader: WebGLShader?)\n  fun disable(cap: Int)\n
fun disableVertexArray(index: Int)\n  fun drawArrays(mode: Int, first: Int, count: Int)\n  fun
drawElements(mode: Int, count: Int, type: Int, offset: Int)\n  fun enable(cap: Int)\n  fun
enableVertexArray(index: Int)\n  fun finish()\n  fun flush()\n  fun framebufferRenderbuffer(target: Int,
attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)\n  fun framebufferTexture2D(target:
Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int)\n  fun frontFace(mode: Int)\n  fun
generateMipmap(target: Int)\n  fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n
fun getActiveUniform(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n  fun
getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>?\n  fun getAttribLocation(program:
WebGLProgram?, name: String): Int\n  fun getBufferParameter(target: Int, pname: Int): Any?\n  fun

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getParameter(pname: Int): Any?\n fun getError(): Int\n fun getFramebufferAttachmentParameter(target: Int,
attachment: Int, pname: Int): Any?\n fun getProgramParameter(program: WebGLProgram?, pname: Int): Any?\n
fun getProgramInfoLog(program: WebGLProgram?): String?\n fun getRenderbufferParameter(target: Int, pname:
Int): Any?\n fun getShaderParameter(shader: WebGLShader?, pname: Int): Any?\n fun
getShaderPrecisionFormat(shadertype: Int, precisiontype: Int): WebGLShaderPrecisionFormat?\n fun
getShaderInfoLog(shader: WebGLShader?): String?\n fun getShaderSource(shader: WebGLShader?): String?\n
fun getTexParameter(target: Int, pname: Int): Any?\n fun getUniform(program: WebGLProgram?, location:
WebGLUniformLocation?): Any?\n fun getUniformLocation(program: WebGLProgram?, name: String):
WebGLUniformLocation?\n fun getVertexAttrib(index: Int, pname: Int): Any?\n fun
getVertexAttribOffset(index: Int, pname: Int): Int\n fun hint(target: Int, mode: Int)\n fun isBuffer(buffer:
WebGLBuffer?): Boolean\n fun isEnabled(cap: Int): Boolean\n fun isFramebuffer(framebuffer:
WebGLFramebuffer?): Boolean\n fun isProgram(program: WebGLProgram?): Boolean\n fun
isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean\n fun isShader(shader: WebGLShader?): Boolean\n
fun isTexture(texture: WebGLTexture?): Boolean\n fun lineWidth(width: Float)\n fun linkProgram(program:
WebGLProgram?)\n fun pixelStorei(pname: Int, param: Int)\n fun polygonOffset(factor: Float, units: Float)\n
fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun
renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int)\n fun sampleCoverage(value: Float,
invert: Boolean)\n fun scissor(x: Int, y: Int, width: Int, height: Int)\n fun shaderSource(shader: WebGLShader?,
source: String)\n fun stencilFunc(func: Int, ref: Int, mask: Int)\n fun stencilFuncSeparate(face: Int, func: Int, ref:
Int, mask: Int)\n fun stencilMask(mask: Int)\n fun stencilMaskSeparate(face: Int, mask: Int)\n fun
stencilOp(fail: Int, zfail: Int, zpass: Int)\n fun stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int)\n fun
texImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels:
ArrayBufferView?)\n fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source:
TexImageSource?)\n fun texParameterf(target: Int, pname: Int, param: Float)\n fun texParameteri(target: Int,
pname: Int, param: Int)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int,
format: Int, type: Int, pixels: ArrayBufferView?)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset:
Int, format: Int, type: Int, source: TexImageSource?)\n fun uniform1f(location: WebGLUniformLocation?, x:
Float)\n fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform1fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform1i(location: WebGLUniformLocation?, x: Int)\n fun
uniform1iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform1iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform2f(location: WebGLUniformLocation?, x: Float, y:
Float)\n fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform2fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)\n
fun uniform2iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform2iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float,
z: Float)\n fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform3fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z:
Int)\n fun uniform3iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform3iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float,
z: Float, w: Float)\n fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array)\n fun
uniform4fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform4i(location:
WebGLUniformLocation?, x: Int, y: Int, z: Int, w: Int)\n fun uniform4iv(location: WebGLUniformLocation?, v:
Int32Array)\n fun uniform4iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun
uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun
uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun
uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun
uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun
uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun

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uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun
useProgram(program: WebGLProgram?)\n fun validateProgram(program: WebGLProgram?)\n fun
vertexAttrib1f(index: Int, x: Float)\n fun vertexAttrib1fv(index: Int, values: dynamic)\n fun
vertexAttrib2f(index: Int, x: Float, y: Float)\n fun vertexAttrib2fv(index: Int, values: dynamic)\n fun
vertexAttrib3f(index: Int, x: Float, y: Float, z: Float)\n fun vertexAttrib3fv(index: Int, values: dynamic)\n fun
vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float)\n fun vertexAttrib4fv(index: Int, values: dynamic)\n
fun vertexAttribPointer(index: Int, size: Int, type: Int, normalized: Boolean, stride: Int, offset: Int)\n fun
viewport(x: Int, y: Int, width: Int, height: Int)\n\n companion object {\n    val DEPTH_BUFFER_BIT: Int\n    val STENCIL_BUFFER_BIT: Int\n    val COLOR_BUFFER_BIT: Int\n    val POINTS: Int\n    val LINES:
Int\n    val LINE_LOOP: Int\n    val LINE_STRIP: Int\n    val TRIANGLES: Int\n    val
TRIANGLE_STRIP: Int\n    val TRIANGLE_FAN: Int\n    val ZERO: Int\n    val ONE: Int\n    val
SRC_COLOR: Int\n    val ONE_MINUS_SRC_COLOR: Int\n    val SRC_ALPHA: Int\n    val
ONE_MINUS_SRC_ALPHA: Int\n    val DST_ALPHA: Int\n    val ONE_MINUS_DST_ALPHA: Int\n
val DST_COLOR: Int\n    val ONE_MINUS_DST_COLOR: Int\n    val SRC_ALPHA_SATURATE: Int\n
val FUNC_ADD: Int\n    val BLEND_EQUATION: Int\n    val BLEND_EQUATION_RGB: Int\n    val
BLEND_EQUATION_ALPHA: Int\n    val FUNC_SUBTRACT: Int\n    val FUNC_REVERSE_SUBTRACT:
Int\n    val BLEND_DST_RGB: Int\n    val BLEND_SRC_RGB: Int\n    val BLEND_DST_ALPHA: Int\n
val BLEND_SRC_ALPHA: Int\n    val CONSTANT_COLOR: Int\n    val
ONE_MINUS_CONSTANT_COLOR: Int\n    val CONSTANT_ALPHA: Int\n    val
ONE_MINUS_CONSTANT_ALPHA: Int\n    val BLEND_COLOR: Int\n    val ARRAY_BUFFER: Int\n
val ELEMENT_ARRAY_BUFFER: Int\n    val ARRAY_BUFFER_BINDING: Int\n    val
ELEMENT_ARRAY_BUFFER_BINDING: Int\n    val STREAM_DRAW: Int\n    val STATIC_DRAW: Int\n
val DYNAMIC_DRAW: Int\n    val BUFFER_SIZE: Int\n    val BUFFER_USAGE: Int\n    val
CURRENT_VERTEX_ATTRIB: Int\n    val FRONT: Int\n    val BACK: Int\n    val FRONT_AND_BACK:
Int\n    val CULL_FACE: Int\n    val BLEND: Int\n    val DITHER: Int\n    val STENCIL_TEST: Int\n
val DEPTH_TEST: Int\n    val SCISSOR_TEST: Int\n    val POLYGON_OFFSET_FILL: Int\n    val
SAMPLE_ALPHA_TO_COVERAGE: Int\n    val SAMPLE_COVERAGE: Int\n    val NO_ERROR: Int\n
val INVALID_ENUM: Int\n    val INVALID_VALUE: Int\n    val INVALID_OPERATION: Int\n    val
OUT_OF_MEMORY: Int\n    val CW: Int\n    val CCW: Int\n    val LINE_WIDTH: Int\n    val
ALIASED_POINT_SIZE_RANGE: Int\n    val ALIASED_LINE_WIDTH_RANGE: Int\n    val
CULL_FACE_MODE: Int\n    val FRONT_FACE: Int\n    val DEPTH_RANGE: Int\n    val
DEPTH_WRITEMASK: Int\n    val DEPTH_CLEAR_VALUE: Int\n    val DEPTH_FUNC: Int\n    val
STENCIL_CLEAR_VALUE: Int\n    val STENCIL_FUNC: Int\n    val STENCIL_FAIL: Int\n    val
STENCIL_PASS_DEPTH_FAIL: Int\n    val STENCIL_PASS_DEPTH_PASS: Int\n    val STENCIL_REF:
Int\n    val STENCIL_VALUE_MASK: Int\n    val STENCIL_WRITEMASK: Int\n    val
STENCIL_BACK_FUNC: Int\n    val STENCIL_BACK_FAIL: Int\n    val
STENCIL_BACK_PASS_DEPTH_FAIL: Int\n    val STENCIL_BACK_PASS_DEPTH_PASS: Int\n    val
STENCIL_BACK_REF: Int\n    val STENCIL_BACK_VALUE_MASK: Int\n    val
STENCIL_BACK_WRITEMASK: Int\n    val VIEWPORT: Int\n    val SCISSOR_BOX: Int\n    val
COLOR_CLEAR_VALUE: Int\n    val COLOR_WRITEMASK: Int\n    val UNPACK_ALIGNMENT: Int\n
val PACK_ALIGNMENT: Int\n    val MAX_TEXTURE_SIZE: Int\n    val MAX_VIEWPORT_DIMS: Int\n
val SUBPIXEL_BITS: Int\n    val RED_BITS: Int\n    val GREEN_BITS: Int\n    val BLUE_BITS: Int\n
val ALPHA_BITS: Int\n    val DEPTH_BITS: Int\n    val STENCIL_BITS: Int\n    val
POLYGON_OFFSET_UNITS: Int\n    val POLYGON_OFFSET_FACTOR: Int\n    val
TEXTURE_BINDING_2D: Int\n    val SAMPLE_BUFFERS: Int\n    val SAMPLES: Int\n    val
SAMPLE_COVERAGE_VALUE: Int\n    val SAMPLE_COVERAGE_INVERT: Int\n    val
COMPRESSED_TEXTURE_FORMATS: Int\n    val DONT_CARE: Int\n    val FASTEST: Int\n    val
NICEST: Int\n    val GENERATE_MIPMAP_HINT: Int\n    val BYTE: Int\n    val UNSIGNED_BYTE:

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Int\n val SHORT: Int\n val UNSIGNED_SHORT: Int\n val INT: Int\n val UNSIGNED_INT: Int\n
 val FLOAT: Int\n val DEPTH_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n val
 RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE_ALPHA: Int\n val
 UNSIGNED_SHORT_4_4_4_4: Int\n val UNSIGNED_SHORT_5_5_5_1: Int\n val
 UNSIGNED_SHORT_5_6_5: Int\n val FRAGMENT_SHADER: Int\n val VERTEX_SHADER: Int\n
 val MAX_VERTEX_ATTRIBS: Int\n val MAX_VERTEX_UNIFORM_VECTORS: Int\n val
 MAX_VARYING_VECTORS: Int\n val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\n val
 MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int\n val MAX_TEXTURE_IMAGE_UNITS: Int\n val
 MAX_FRAGMENT_UNIFORM_VECTORS: Int\n val SHADER_TYPE: Int\n val DELETE_STATUS:
 Int\n val LINK_STATUS: Int\n val VALIDATE_STATUS: Int\n val ATTACHED_SHADERS: Int\n
 val ACTIVE_UNIFORMS: Int\n val ACTIVE_ATTRIBUTES: Int\n val
 SHADING_LANGUAGE_VERSION: Int\n val CURRENT_PROGRAM: Int\n val NEVER: Int\n val
 LESS: Int\n val EQUAL: Int\n val LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n
 val GEQUAL: Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n
 val DECR: Int\n val INVERT: Int\n val INCR_WRAP: Int\n val DECR_WRAP: Int\n val
 VENDOR: Int\n val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n val LINEAR:
 Int\n val NEAREST_MIPMAP_NEAREST: Int\n val LINEAR_MIPMAP_NEAREST: Int\n val
 NEAREST_MIPMAP_LINEAR: Int\n val LINEAR_MIPMAP_LINEAR: Int\n val
 TEXTURE_MAG_FILTER: Int\n val TEXTURE_MIN_FILTER: Int\n val TEXTURE_WRAP_S: Int\n
 val TEXTURE_WRAP_T: Int\n val TEXTURE_2D: Int\n val TEXTURE: Int\n val
 TEXTURE_CUBE_MAP: Int\n val TEXTURE_BINDING_CUBE_MAP: Int\n val
 TEXTURE_CUBE_MAP_POSITIVE_X: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\n val
 TEXTURE_CUBE_MAP_POSITIVE_Y: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\n val
 TEXTURE_CUBE_MAP_POSITIVE_Z: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\n val
 MAX_CUBE_MAP_TEXTURE_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val
 TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val
 TEXTURE6: Int\n val TEXTURE7: Int\n val TEXTURE8: Int\n val TEXTURE9: Int\n val
 TEXTURE10: Int\n val TEXTURE11: Int\n val TEXTURE12: Int\n val TEXTURE13: Int\n val
 TEXTURE14: Int\n val TEXTURE15: Int\n val TEXTURE16: Int\n val TEXTURE17: Int\n val
 TEXTURE18: Int\n val TEXTURE19: Int\n val TEXTURE20: Int\n val TEXTURE21: Int\n val
 TEXTURE22: Int\n val TEXTURE23: Int\n val TEXTURE24: Int\n val TEXTURE25: Int\n val
 TEXTURE26: Int\n val TEXTURE27: Int\n val TEXTURE28: Int\n val TEXTURE29: Int\n val
 TEXTURE30: Int\n val TEXTURE31: Int\n val ACTIVE_TEXTURE: Int\n val REPEAT: Int\n
 val CLAMP_TO_EDGE: Int\n val MIRRORED_REPEAT: Int\n val FLOAT_VEC2: Int\n val
 FLOAT_VEC3: Int\n val FLOAT_VEC4: Int\n val INT_VEC2: Int\n val INT_VEC3: Int\n val
 INT_VEC4: Int\n val BOOL: Int\n val BOOL_VEC2: Int\n val BOOL_VEC3: Int\n val
 BOOL_VEC4: Int\n val FLOAT_MAT2: Int\n val FLOAT_MAT3: Int\n val FLOAT_MAT4: Int\n
 val SAMPLER_2D: Int\n val SAMPLER_CUBE: Int\n val VERTEX_ATTRIB_ARRAY_ENABLED:
 Int\n val VERTEX_ATTRIB_ARRAY_SIZE: Int\n val VERTEX_ATTRIB_ARRAY_STRIDE: Int\n
 val VERTEX_ATTRIB_ARRAY_TYPE: Int\n val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\n
 val VERTEX_ATTRIB_ARRAY_POINTER: Int\n val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING:
 Int\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\n val
 IMPLEMENTATION_COLOR_READ_FORMAT: Int\n val COMPILE_STATUS: Int\n val
 LOW_FLOAT: Int\n val MEDIUM_FLOAT: Int\n val HIGH_FLOAT: Int\n val LOW_INT: Int\n
 val MEDIUM_INT: Int\n val HIGH_INT: Int\n val FRAMEBUFFER: Int\n val RENDERBUFFER:
 Int\n val RGBA4: Int\n val RGB5_A1: Int\n val RGB565: Int\n val DEPTH_COMPONENT16:
 Int\n val STENCIL_INDEX: Int\n val STENCIL_INDEX8: Int\n val DEPTH_STENCIL: Int\n val
 RENDERBUFFER_WIDTH: Int\n val RENDERBUFFER_HEIGHT: Int\n val


```

RENDERBUFFER_INTERNAL_FORMAT: Int\n    val RENDERBUFFER_RED_SIZE: Int\n    val
RENDERBUFFER_GREEN_SIZE: Int\n    val RENDERBUFFER_BLUE_SIZE: Int\n    val
RENDERBUFFER_ALPHA_SIZE: Int\n    val RENDERBUFFER_DEPTH_SIZE: Int\n    val
RENDERBUFFER_STENCIL_SIZE: Int\n    val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n
val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n    val
FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n    val
FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n    val COLOR_ATTACHMENT0:
Int\n    val DEPTH_ATTACHMENT: Int\n    val STENCIL_ATTACHMENT: Int\n    val
DEPTH_STENCIL_ATTACHMENT: Int\n    val NONE: Int\n    val FRAMEBUFFER_COMPLETE: Int\n
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n    val
FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n    val
FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n    val FRAMEBUFFER_UNSUPPORTED: Int\n
val FRAMEBUFFER_BINDING: Int\n    val RENDERBUFFER_BINDING: Int\n    val
MAX_RENDERBUFFER_SIZE: Int\n    val INVALID_FRAMEBUFFER_OPERATION: Int\n    val
UNPACK_FLIP_Y_WEBGL: Int\n    val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n    val
CONTEXT_LOST_WEBGL: Int\n    val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n    val
BROWSER_DEFAULT_WEBGL: Int\n    }\n}\n\n**\n * Exposes the JavaScript
[WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin\n
*\npublic external abstract class WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {\n
companion object {\n    val DEPTH_BUFFER_BIT: Int\n    val STENCIL_BUFFER_BIT: Int\n    val
COLOR_BUFFER_BIT: Int\n    val POINTS: Int\n    val LINES: Int\n    val LINE_LOOP: Int\n    val
LINE_STRIP: Int\n    val TRIANGLES: Int\n    val TRIANGLE_STRIP: Int\n    val TRIANGLE_FAN:
Int\n    val ZERO: Int\n    val ONE: Int\n    val SRC_COLOR: Int\n    val ONE_MINUS_SRC_COLOR:
Int\n    val SRC_ALPHA: Int\n    val ONE_MINUS_SRC_ALPHA: Int\n    val DST_ALPHA: Int\n    val
ONE_MINUS_DST_ALPHA: Int\n    val DST_COLOR: Int\n    val ONE_MINUS_DST_COLOR: Int\n
val SRC_ALPHA_SATURATE: Int\n    val FUNC_ADD: Int\n    val BLEND_EQUATION: Int\n    val
BLEND_EQUATION_RGB: Int\n    val BLEND_EQUATION_ALPHA: Int\n    val FUNC_SUBTRACT:
Int\n    val FUNC_REVERSE_SUBTRACT: Int\n    val BLEND_DST_RGB: Int\n    val
BLEND_SRC_RGB: Int\n    val BLEND_DST_ALPHA: Int\n    val BLEND_SRC_ALPHA: Int\n    val
CONSTANT_COLOR: Int\n    val ONE_MINUS_CONSTANT_COLOR: Int\n    val CONSTANT_ALPHA:
Int\n    val ONE_MINUS_CONSTANT_ALPHA: Int\n    val BLEND_COLOR: Int\n    val
ARRAY_BUFFER: Int\n    val ELEMENT_ARRAY_BUFFER: Int\n    val ARRAY_BUFFER_BINDING:
Int\n    val ELEMENT_ARRAY_BUFFER_BINDING: Int\n    val STREAM_DRAW: Int\n    val
STATIC_DRAW: Int\n    val DYNAMIC_DRAW: Int\n    val BUFFER_SIZE: Int\n    val
BUFFER_USAGE: Int\n    val CURRENT_VERTEX_ATTRIB: Int\n    val FRONT: Int\n    val BACK:
Int\n    val FRONT_AND_BACK: Int\n    val CULL_FACE: Int\n    val BLEND: Int\n    val DITHER:
Int\n    val STENCIL_TEST: Int\n    val DEPTH_TEST: Int\n    val SCISSOR_TEST: Int\n    val
POLYGON_OFFSET_FILL: Int\n    val SAMPLE_ALPHA_TO_COVERAGE: Int\n    val
SAMPLE_COVERAGE: Int\n    val NO_ERROR: Int\n    val INVALID_ENUM: Int\n    val
INVALID_VALUE: Int\n    val INVALID_OPERATION: Int\n    val OUT_OF_MEMORY: Int\n    val CW:
Int\n    val CCW: Int\n    val LINE_WIDTH: Int\n    val ALIASED_POINT_SIZE_RANGE: Int\n    val
ALIASED_LINE_WIDTH_RANGE: Int\n    val CULL_FACE_MODE: Int\n    val FRONT_FACE: Int\n
val DEPTH_RANGE: Int\n    val DEPTH_WRITEMASK: Int\n    val DEPTH_CLEAR_VALUE: Int\n    val
DEPTH_FUNC: Int\n    val STENCIL_CLEAR_VALUE: Int\n    val STENCIL_FUNC: Int\n    val
STENCIL_FAIL: Int\n    val STENCIL_PASS_DEPTH_FAIL: Int\n    val STENCIL_PASS_DEPTH_PASS:
Int\n    val STENCIL_REF: Int\n    val STENCIL_VALUE_MASK: Int\n    val STENCIL_WRITEMASK:
Int\n    val STENCIL_BACK_FUNC: Int\n    val STENCIL_BACK_FAIL: Int\n    val
STENCIL_BACK_PASS_DEPTH_FAIL: Int\n    val STENCIL_BACK_PASS_DEPTH_PASS: Int\n    val

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STENCIL_BACK_REF: Int\n val STENCIL_BACK_VALUE_MASK: Int\n val
 STENCIL_BACK_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR_BOX: Int\n val
 COLOR_CLEAR_VALUE: Int\n val COLOR_WRITEMASK: Int\n val UNPACK_ALIGNMENT: Int\n
 val PACK_ALIGNMENT: Int\n val MAX_TEXTURE_SIZE: Int\n val MAX_VIEWPORT_DIMS: Int\n
 val SUBPIXEL_BITS: Int\n val RED_BITS: Int\n val GREEN_BITS: Int\n val BLUE_BITS: Int\n
 val ALPHA_BITS: Int\n val DEPTH_BITS: Int\n val STENCIL_BITS: Int\n val
 POLYGON_OFFSET_UNITS: Int\n val POLYGON_OFFSET_FACTOR: Int\n val
 TEXTURE_BINDING_2D: Int\n val SAMPLE_BUFFERS: Int\n val SAMPLES: Int\n val
 SAMPLE_COVERAGE_VALUE: Int\n val SAMPLE_COVERAGE_INVERT: Int\n val
 COMPRESSED_TEXTURE_FORMATS: Int\n val DONT_CARE: Int\n val FASTEST: Int\n val
 NICEST: Int\n val GENERATE_MIPMAP_HINT: Int\n val BYTE: Int\n val UNSIGNED_BYTE:
 Int\n val SHORT: Int\n val UNSIGNED_SHORT: Int\n val INT: Int\n val UNSIGNED_INT: Int\n
 val FLOAT: Int\n val DEPTH_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n val
 RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE_ALPHA: Int\n val
 UNSIGNED_SHORT_4_4_4_4: Int\n val UNSIGNED_SHORT_5_5_5_1: Int\n val
 UNSIGNED_SHORT_5_6_5: Int\n val FRAGMENT_SHADER: Int\n val VERTEX_SHADER: Int\n
 val MAX_VERTEX_ATTRIBS: Int\n val MAX_VERTEX_UNIFORM_VECTORS: Int\n val
 MAX_VARYING_VECTORS: Int\n val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\n val
 MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int\n val MAX_TEXTURE_IMAGE_UNITS: Int\n val
 MAX_FRAGMENT_UNIFORM_VECTORS: Int\n val SHADER_TYPE: Int\n val DELETE_STATUS:
 Int\n val LINK_STATUS: Int\n val VALIDATE_STATUS: Int\n val ATTACHED_SHADERS: Int\n
 val ACTIVE_UNIFORMS: Int\n val ACTIVE_ATTRIBUTES: Int\n val
 SHADING_LANGUAGE_VERSION: Int\n val CURRENT_PROGRAM: Int\n val NEVER: Int\n val
 LESS: Int\n val EQUAL: Int\n val LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n
 val GEQUAL: Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n
 val DECR: Int\n val INVERT: Int\n val INCR_WRAP: Int\n val DECR_WRAP: Int\n val
 VENDOR: Int\n val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n val LINEAR:
 Int\n val NEAREST_MIPMAP_NEAREST: Int\n val LINEAR_MIPMAP_NEAREST: Int\n val
 NEAREST_MIPMAP_LINEAR: Int\n val LINEAR_MIPMAP_LINEAR: Int\n val
 TEXTURE_MAG_FILTER: Int\n val TEXTURE_MIN_FILTER: Int\n val TEXTURE_WRAP_S: Int\n
 val TEXTURE_WRAP_T: Int\n val TEXTURE_2D: Int\n val TEXTURE: Int\n val
 TEXTURE_CUBE_MAP: Int\n val TEXTURE_BINDING_CUBE_MAP: Int\n val
 TEXTURE_CUBE_MAP_POSITIVE_X: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\n val
 TEXTURE_CUBE_MAP_POSITIVE_Y: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\n val
 TEXTURE_CUBE_MAP_POSITIVE_Z: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\n val
 MAX_CUBE_MAP_TEXTURE_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val
 TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val
 TEXTURE6: Int\n val TEXTURE7: Int\n val TEXTURE8: Int\n val TEXTURE9: Int\n val
 TEXTURE10: Int\n val TEXTURE11: Int\n val TEXTURE12: Int\n val TEXTURE13: Int\n val
 TEXTURE14: Int\n val TEXTURE15: Int\n val TEXTURE16: Int\n val TEXTURE17: Int\n val
 TEXTURE18: Int\n val TEXTURE19: Int\n val TEXTURE20: Int\n val TEXTURE21: Int\n val
 TEXTURE22: Int\n val TEXTURE23: Int\n val TEXTURE24: Int\n val TEXTURE25: Int\n val
 TEXTURE26: Int\n val TEXTURE27: Int\n val TEXTURE28: Int\n val TEXTURE29: Int\n val
 TEXTURE30: Int\n val TEXTURE31: Int\n val ACTIVE_TEXTURE: Int\n val REPEAT: Int\n
 val CLAMP_TO_EDGE: Int\n val MIRRORED_REPEAT: Int\n val FLOAT_VEC2: Int\n val
 FLOAT_VEC3: Int\n val FLOAT_VEC4: Int\n val INT_VEC2: Int\n val INT_VEC3: Int\n val
 INT_VEC4: Int\n val BOOL: Int\n val BOOL_VEC2: Int\n val BOOL_VEC3: Int\n val
 BOOL_VEC4: Int\n val FLOAT_MAT2: Int\n val FLOAT_MAT3: Int\n val FLOAT_MAT4: Int\n

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val SAMPLER_2D: Int\n    val SAMPLER_CUBE: Int\n    val VERTEX_ATTRIB_ARRAY_ENABLED:
Int\n    val VERTEX_ATTRIB_ARRAY_SIZE: Int\n    val VERTEX_ATTRIB_ARRAY_STRIDE: Int\n
val VERTEX_ATTRIB_ARRAY_TYPE: Int\n    val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\n
val VERTEX_ATTRIB_ARRAY_POINTER: Int\n    val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING:
Int\n    val IMPLEMENTATION_COLOR_READ_TYPE: Int\n    val
IMPLEMENTATION_COLOR_READ_FORMAT: Int\n    val COMPILE_STATUS: Int\n    val
LOW_FLOAT: Int\n    val MEDIUM_FLOAT: Int\n    val HIGH_FLOAT: Int\n    val LOW_INT: Int\n
val MEDIUM_INT: Int\n    val HIGH_INT: Int\n    val FRAMEBUFFER: Int\n    val RENDERBUFFER:
Int\n    val RGBA4: Int\n    val RGB5_A1: Int\n    val RGB565: Int\n    val DEPTH_COMPONENT16:
Int\n    val STENCIL_INDEX: Int\n    val STENCIL_INDEX8: Int\n    val DEPTH_STENCIL: Int\n    val
RENDERBUFFER_WIDTH: Int\n    val RENDERBUFFER_HEIGHT: Int\n    val
RENDERBUFFER_INTERNAL_FORMAT: Int\n    val RENDERBUFFER_RED_SIZE: Int\n    val
RENDERBUFFER_GREEN_SIZE: Int\n    val RENDERBUFFER_BLUE_SIZE: Int\n    val
RENDERBUFFER_ALPHA_SIZE: Int\n    val RENDERBUFFER_DEPTH_SIZE: Int\n    val
RENDERBUFFER_STENCIL_SIZE: Int\n    val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n
val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n    val
FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n    val
FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n    val COLOR_ATTACHMENT0:
Int\n    val DEPTH_ATTACHMENT: Int\n    val STENCIL_ATTACHMENT: Int\n    val
DEPTH_STENCIL_ATTACHMENT: Int\n    val NONE: Int\n    val FRAMEBUFFER_COMPLETE: Int\n
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n    val
FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n    val
FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n    val FRAMEBUFFER_UNSUPPORTED: Int\n
val FRAMEBUFFER_BINDING: Int\n    val RENDERBUFFER_BINDING: Int\n    val
MAX_RENDERBUFFER_SIZE: Int\n    val INVALID_FRAMEBUFFER_OPERATION: Int\n    val
UNPACK_FLIP_Y_WEBGL: Int\n    val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n    val
CONTEXT_LOST_WEBGL: Int\n    val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n    val
BROWSER_DEFAULT_WEBGL: Int\n } \n } \n \n /** \n * Exposes the JavaScript
[WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin \n
*/ \n public external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit =
definedExternally) : Event { \n    open val statusMessage: String \n \n    companion object { \n        val NONE: Short \n
        val CAPTURING_PHASE: Short \n        val AT_TARGET: Short \n        val BUBBLING_PHASE: Short \n
    } \n } \n \n public external interface WebGLContextEventInit : EventInit { \n    var statusMessage: String? /* = "" */ \n
get() = definedExternally \n    set(value) = definedExternally \n } \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun
WebGLContextEventInit(statusMessage: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): WebGLContextEventInit { \n    val o = js("{}") \n    o["statusMessage"] =
statusMessage \n    o["bubbles"] = bubbles \n    o["cancelable"] = cancelable \n    o["composed"] = composed \n
return o \n } \n \n /** \n * Exposes the JavaScript
[ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin \n
*/ \n public external open
class ArrayBuffer(length: Int) : BufferDataSource { \n    open val byteLength: Int \n    fun slice(begin: Int, end: Int =
definedExternally): ArrayBuffer \n \n    companion object { \n        fun isView(value: Any?): Boolean \n
    } \n } \n \n /** \n * Exposes the JavaScript
[ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to Kotlin \n
*/ \n public
external interface ArrayBufferView : BufferDataSource { \n    val buffer: ArrayBuffer \n    val byteOffset: Int \n    val
byteLength: Int \n } \n \n /** \n * Exposes the JavaScript
[Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin \n
*/ \n public external open class
Int8Array : ArrayBufferView { \n    constructor(length: Int) \n    constructor(array: Int8Array) \n    constructor(array:

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Array<Byte>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int =
definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n
override val byteLength: Int\n  fun set(array: Int8Array, offset: Int = definedExternally)\n  fun set(array:
Array<Byte>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Int8Array\n\n  companion
object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.get(index: Int):
Byte = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.set(index: Int,
value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin\n */\npublic external open class
Uint8Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Uint8Array)\n
constructor(array: Array<Byte>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Uint8Array, offset: Int = definedExternally)\n  fun set(array:
Array<Byte>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Uint8Array\n\n  companion
object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8Array.get(index: Int):
Byte = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8Array.set(index: Int,
value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin\n */\npublic
external open class Uint8ClampedArray : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array:
Uint8ClampedArray)\n  constructor(array: Array<Byte>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int =
definedExternally, length: Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n
override val byteOffset: Int\n  override val byteLength: Int\n  fun set(array: Uint8ClampedArray, offset: Int =
definedExternally)\n  fun set(array: Array<Byte>, offset: Int = definedExternally)\n  fun subarray(start: Int, end:
Int): Uint8ClampedArray\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
Uint8ClampedArray.get(index: Int): Byte = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
Uint8ClampedArray.set(index: Int, value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin\n */\npublic external open class
Int16Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Int16Array)\n
constructor(array: Array<Short>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Int16Array, offset: Int = definedExternally)\n  fun set(array:
Array<Short>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Int16Array\n\n  companion
object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.get(index: Int):
Short = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.set(index: Int,
value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin\n */\npublic external open
class Uint16Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Uint16Array)\n
constructor(array: Array<Short>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Uint16Array, offset: Int = definedExternally)\n  fun set(array:

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Array<Short>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Uint16Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.get(index: Int):
Short = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.set(index: Int,
value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\n *\n\npublic external open class
Int32Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Int32Array)\n
constructor(array: Array<Int>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n
override val byteLength: Int\n fun set(array: Int32Array, offset: Int = definedExternally)\n fun set(array:
Array<Int>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Int32Array\n\n companion object
{\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.get(index: Int): Int
= asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.set(index: Int,
value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\n *\n\npublic external open
class Uint32Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Uint32Array)\n
constructor(array: Array<Int>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n
override val byteLength: Int\n fun set(array: Uint32Array, offset: Int = definedExternally)\n fun set(array:
Array<Int>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Uint32Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.get(index: Int):
Int = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.set(index: Int,
value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin\n *\n\npublic external open
class Float32Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Float32Array)\n
constructor(array: Array<Float>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset:
Int\n override val byteLength: Int\n fun set(array: Float32Array, offset: Int = definedExternally)\n fun
set(array: Array<Float>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Float32Array\n\n
companion object {\n val BYTES_PER_ELEMENT: Int\n
}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.get(index: Int):
Float = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.set(index: Int,
value: Float) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin\n *\n\npublic external open
class Float64Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Float64Array)\n
constructor(array: Array<Double>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset:
Int\n override val byteLength: Int\n fun set(array: Float64Array, offset: Int = definedExternally)\n fun
set(array: Array<Double>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Float64Array\n\n
companion object {\n val BYTES_PER_ELEMENT: Int\n
}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

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\@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.get(index: Int):
Double = asDynamic()[index]\n\n@Suppress(\\"INVISIBLE_REFERENCE\"),
\@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.set(index: Int,
value: Double) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin\n *\npublic external open class
DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) :
ArrayBufferView {\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n  override val
byteLength: Int\n  fun getInt8(byteOffset: Int): Byte\n  fun getUint8(byteOffset: Int): Byte\n  fun
getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n  fun getUint16(byteOffset: Int,
littleEndian: Boolean = definedExternally): Short\n  fun getInt32(byteOffset: Int, littleEndian: Boolean =
definedExternally): Int\n  fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n  fun
getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float\n  fun getFloat64(byteOffset: Int,
littleEndian: Boolean = definedExternally): Double\n  fun setInt8(byteOffset: Int, value: Byte)\n  fun
setUint8(byteOffset: Int, value: Byte)\n  fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean =
definedExternally)\n  fun setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n
fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n  fun setUint32(byteOffset: Int,
value: Int, littleEndian: Boolean = definedExternally)\n  fun setFloat32(byteOffset: Int, value: Float, littleEndian:
Boolean = definedExternally)\n  fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean =
definedExternally)\n}\n\npublic external interface BufferDataSource\n\npublic external interface
TexImageSource", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for
details\n\npackage org.w3c.dom.clipboard\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface ClipboardEventInit : EventInit {\n  var
clipboardData: DataTransfer? /* = null *\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\"),
\@kotlin.internal.InlineOnly\npublic inline fun ClipboardEventInit(clipboardData:
DataTransfer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
ClipboardEventInit {\n  val o = js(\\"({})\")\n  o[\"clipboardData\"] = clipboardData\n  o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\n *\npublic external
open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {\n  open
val clipboardData: DataTransfer?\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to
Kotlin\n *\npublic external abstract class Clipboard : EventTarget {\n  fun read(): Promise<DataTransfer>\n  fun
readText(): Promise<String>\n  fun write(data: DataTransfer): Promise<Unit>\n  fun writeText(data: String):
Promise<Unit>\n}\n\npublic external interface ClipboardPermissionDescriptor {\n  var allowWithoutGesture:
Boolean? /* = false *\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\"),
\@kotlin.internal.InlineOnly\npublic inline fun
ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\n  val
o = js(\\"({})\")\n  o[\"allowWithoutGesture\"] = allowWithoutGesture\n  return o\n}", /*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.css\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\npublic external abstract class MediaList :
ItemArrayLike<String> {\n  open var mediaText: String\n  fun appendMedium(medium: String)\n  fun

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deleteMedium(medium: String)\n  override fun item(index: Int):
String?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun MediaList.get(index: Int):
String? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin\n *\npublic external abstract
class StyleSheet {\n  open val type: String\n  open val href: String?\n  open val ownerNode:
UnionElementOrProcessingInstruction?\n  open val parentStyleSheet: StyleSheet?\n  open val title: String?\n
open val media: MediaList\n  open var disabled: Boolean\n}\n\n/**\n * Exposes the JavaScript
[CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin\n *\npublic external
abstract class CSSStyleSheet : StyleSheet {\n  open val ownerRule: CSSRule?\n  open val cssRules:
CSSRuleList\n  fun insertRule(rule: String, index: Int): Int\n  fun deleteRule(index: Int)\n}\n\n/**\n * Exposes the
JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\n *\npublic
external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\n  override fun item(index: Int):
StyleSheet?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun StyleSheetList.get(index: Int):
StyleSheet? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin\n *\npublic external interface
LinkStyle {\n  val sheet: StyleSheet?\n  get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript
[CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin\n *\npublic external abstract
class CSSRuleList : ItemArrayLike<CSSRule> {\n  override fun item(index: Int):
CSSRule?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSRuleList.get(index: Int):
CSSRule? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin\n *\npublic external abstract class
CSSRule {\n  open val type: Short\n  open var cssText: String\n  open val parentRule: CSSRule?\n  open val
parentStyleSheet: CSSStyleSheet?\n\n  companion object {\n    val STYLE_RULE: Short\n    val
CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val
FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val
NAMESPACE_RULE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin\n *\npublic external
abstract class CSSStyleRule : CSSRule {\n  open var selectorText: String\n  open val style:
CSSStyleDeclaration\n\n  companion object {\n    val STYLE_RULE: Short\n    val CHARSET_RULE:
Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n
    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n  }\n}\n\npublic external abstract class CSSImportRule : CSSRule {\n  open val href: String\n  open val media:
MediaList\n  open val styleSheet: CSSStyleSheet\n\n  companion object {\n    val STYLE_RULE: Short\n
    val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val
FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val
NAMESPACE_RULE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to Kotlin\n *\npublic
external abstract class CSSGroupingRule : CSSRule {\n  open val cssRules: CSSRuleList\n  fun insertRule(rule:
String, index: Int): Int\n  fun deleteRule(index: Int)\n\n  companion object {\n    val STYLE_RULE: Short\n
    val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val
FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val
NAMESPACE_RULE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin\n *\npublic external
abstract class CSSMediaRule : CSSGroupingRule {\n  open val media: MediaList\n\n  companion object {\n
    val STYLE_RULE: Short\n    val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val

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MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val
MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin\n *\npublic external
abstract class CSSPageRule : CSSGroupingRule {\n    open var selectorText: String\n    open val style:
CSSStyleDeclaration\n\n    companion object {\n        val STYLE_RULE: Short\n        val CHARSET_RULE:
Short\n        val IMPORT_RULE: Short\n        val MEDIA_RULE: Short\n        val FONT_FACE_RULE: Short\n
        val PAGE_RULE: Short\n        val MARGIN_RULE: Short\n        val NAMESPACE_RULE: Short\n
    }\n}\n\npublic external abstract class CSSMarginRule : CSSRule {\n    open val name: String\n    open val style:
CSSStyleDeclaration\n\n    companion object {\n        val STYLE_RULE: Short\n        val CHARSET_RULE:
Short\n        val IMPORT_RULE: Short\n        val MEDIA_RULE: Short\n        val FONT_FACE_RULE: Short\n
        val PAGE_RULE: Short\n        val MARGIN_RULE: Short\n        val NAMESPACE_RULE: Short\n
    }\n}\n}\n\n/**\n * Exposes the JavaScript
[CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin\n *\npublic
external abstract class CSSNamespaceRule : CSSRule {\n    open val namespaceURI: String\n    open val prefix:
String\n\n    companion object {\n        val STYLE_RULE: Short\n        val CHARSET_RULE: Short\n        val
IMPORT_RULE: Short\n        val MEDIA_RULE: Short\n        val FONT_FACE_RULE: Short\n        val
PAGE_RULE: Short\n        val MARGIN_RULE: Short\n        val NAMESPACE_RULE: Short\n    }\n}\n}\n\n/**\n *
Exposes the JavaScript
[CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin\n *\npublic
external abstract class CSSStyleDeclaration : ItemArrayLike<String> {\n    open var cssText: String\n    open val
parentRule: CSSRule?\n    open var cssFloat: String\n    open var alignContent: String\n    open var alignItems:
String\n    open var alignSelf: String\n    open var animation: String\n    open var animationDelay: String\n    open
var animationDirection: String\n    open var animationDuration: String\n    open var animationFillMode: String\n
    open var animationIterationCount: String\n    open var animationName: String\n    open var animationPlayState:
String\n    open var animationTimingFunction: String\n    open var backfaceVisibility: String\n    open var
background: String\n    open var backgroundAttachment: String\n    open var backgroundClip: String\n    open var
backgroundColor: String\n    open var backgroundImage: String\n    open var backgroundOrigin: String\n    open var
backgroundPosition: String\n    open var backgroundRepeat: String\n    open var backgroundSize: String\n    open
var border: String\n    open var borderBottom: String\n    open var borderBottomColor: String\n    open var
borderBottomLeftRadius: String\n    open var borderBottomRightRadius: String\n    open var borderBottomStyle:
String\n    open var borderBottomWidth: String\n    open var borderCollapse: String\n    open var borderColor:
String\n    open var borderImage: String\n    open var borderImageOutset: String\n    open var borderImageRepeat:
String\n    open var borderImageSlice: String\n    open var borderImageSource: String\n    open var
borderImageWidth: String\n    open var borderLeft: String\n    open var borderLeftColor: String\n    open var
borderLeftStyle: String\n    open var borderLeftWidth: String\n    open var borderRadius: String\n    open var
borderRight: String\n    open var borderRightColor: String\n    open var borderRightStyle: String\n    open var
borderRightWidth: String\n    open var borderSpacing: String\n    open var borderStyle: String\n    open var
borderTop: String\n    open var borderTopColor: String\n    open var borderTopLeftRadius: String\n    open var
borderTopRightRadius: String\n    open var borderTopStyle: String\n    open var borderTopWidth: String\n    open
var borderWidth: String\n    open var bottom: String\n    open var boxDecorationBreak: String\n    open var
boxShadow: String\n    open var boxSizing: String\n    open var breakAfter: String\n    open var breakBefore:
String\n    open var breakInside: String\n    open var captionSide: String\n    open var clear: String\n    open var clip:
String\n    open var color: String\n    open var columnCount: String\n    open var columnFill: String\n    open var
columnGap: String\n    open var columnRule: String\n    open var columnRuleColor: String\n    open var
columnRuleStyle: String\n    open var columnRuleWidth: String\n    open var columnSpan: String\n    open var
columnWidth: String\n    open var columns: String\n    open var content: String\n    open var counterIncrement:
String\n    open var counterReset: String\n    open var cursor: String\n    open var direction: String\n    open var
display: String\n    open var emptyCells: String\n    open var filter: String\n    open var flex: String\n    open var

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flexBasis: String\n open var flexDirection: String\n open var flexFlow: String\n open var flexGrow: String\n
open var flexShrink: String\n open var flexWrap: String\n open var font: String\n open var fontFamily:
String\n open var fontFeatureSettings: String\n open var fontKerning: String\n open var
fontLanguageOverride: String\n open var fontSize: String\n open var fontSizeAdjust: String\n open var
fontStretch: String\n open var fontStyle: String\n open var fontSynthesis: String\n open var fontVariant:
String\n open var fontVariantAlternates: String\n open var fontVariantCaps: String\n open var
fontVariantEastAsian: String\n open var fontVariantLigatures: String\n open var fontVariantNumeric: String\n
open var fontVariantPosition: String\n open var fontWeight: String\n open var hangingPunctuation: String\n
open var height: String\n open var hyphens: String\n open var imageOrientation: String\n open var
imageRendering: String\n open var imageResolution: String\n open var imeMode: String\n open var
justifyContent: String\n open var left: String\n open var letterSpacing: String\n open var lineBreak: String\n
open var lineHeight: String\n open var listStyle: String\n open var listStyleImage: String\n open var
listStylePosition: String\n open var listStyleType: String\n open var margin: String\n open var marginBottom:
String\n open var marginLeft: String\n open var marginRight: String\n open var marginTop: String\n open
var mark: String\n open var markAfter: String\n open var markBefore: String\n open var marks: String\n
open var marqueeDirection: String\n open var marqueePlayCount: String\n open var marqueeSpeed: String\n
open var marqueeStyle: String\n open var mask: String\n open var maskType: String\n open var maxHeight:
String\n open var maxWidth: String\n open var minHeight: String\n open var minWidth: String\n open var
navDown: String\n open var navIndex: String\n open var navLeft: String\n open var navRight: String\n open
var navUp: String\n open var objectFit: String\n open var objectPosition: String\n open var opacity: String\n
open var order: String\n open var orphans: String\n open var outline: String\n open var outlineColor: String\n
open var outlineOffset: String\n open var outlineStyle: String\n open var outlineWidth: String\n open var
overflowWrap: String\n open var overflowX: String\n open var overflowY: String\n open var padding:
String\n open var paddingBottom: String\n open var paddingLeft: String\n open var paddingRight: String\n
open var paddingTop: String\n open var pageBreakAfter: String\n open var pageBreakBefore: String\n open
var pageBreakInside: String\n open var perspective: String\n open var perspectiveOrigin: String\n open var
phonemes: String\n open var position: String\n open var quotes: String\n open var resize: String\n open var
rest: String\n open var restAfter: String\n open var restBefore: String\n open var right: String\n open var
tabSize: String\n open var tableLayout: String\n open var textAlign: String\n open var textAlignLast: String\n
open var textCombineUpright: String\n open var textDecoration: String\n open var textDecorationColor:
String\n open var textDecorationLine: String\n open var textDecorationStyle: String\n open var textIndent:
String\n open var textJustify: String\n open var textOrientation: String\n open var textOverflow: String\n
open var textShadow: String\n open var textTransform: String\n open var textUnderlinePosition: String\n open
var top: String\n open var transform: String\n open var transformOrigin: String\n open var transformStyle:
String\n open var transition: String\n open var transitionDelay: String\n open var transitionDuration: String\n
open var transitionProperty: String\n open var transitionTimingFunction: String\n open var unicodeBidi:
String\n open var verticalAlign: String\n open var visibility: String\n open var voiceBalance: String\n open
var voiceDuration: String\n open var voicePitch: String\n open var voicePitchRange: String\n open var
voiceRate: String\n open var voiceStress: String\n open var voiceVolume: String\n open var whiteSpace:
String\n open var widows: String\n open var width: String\n open var wordBreak: String\n open var
wordSpacing: String\n open var wordWrap: String\n open var writingMode: String\n open var zIndex: String\n
open var _dashed_attribute: String\n open var _camel_cased_attribute: String\n open var
_webkit_cased_attribute: String\n fun getPropertyValue(property: String): String\n fun
getPropertyPriority(property: String): String\n fun setProperty(property: String, value: String, priority: String =
definedExternally)\n fun setPropertyValue(property: String, value: String)\n fun setPropertyPriority(property:
String, priority: String)\n fun removeProperty(property: String): String\n override fun item(index: Int):
String\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun

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CSSStyleDeclaration.get(index: Int): String? = asDynamic()[index]\n\npublic external interface
ElementCSSInlineStyle {\n  val style: CSSStyleDeclaration\n}\n\n/**\n * Exposes the JavaScript
[CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin\n */\n\npublic external abstract class CSS {\n
companion object {\n  fun escape(ident: String): String\n }\n}\n\npublic external interface
UnionElementOrProcessingInstruction, "/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.dom.encryptedmedia\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes the JavaScript
[MediaKeySystemConfiguration](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemConfiguration)
to Kotlin\n */\n\npublic external interface MediaKeySystemConfiguration {\n  var label: String? /* = "" */\n
get() = definedExternally\n  set(value) = definedExternally\n  var initDataTypes: Array<String>? /* = arrayOf()
*/\n  get() = definedExternally\n  set(value) = definedExternally\n  var audioCapabilities:
Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var videoCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n
get() = definedExternally\n  set(value) = definedExternally\n  var distinctiveIdentifier:
MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */\n  get() = definedExternally\n
set(value) = definedExternally\n  var persistentState: MediaKeysRequirement? /* =
MediaKeysRequirement.OPTIONAL */\n  get() = definedExternally\n  set(value) = definedExternally\n
var sessionTypes: Array<String>?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun MediaKeySystemConfiguration(label:
String? = "", initDataTypes: Array<String>? = arrayOf(), audioCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), videoCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), distinctiveIdentifier: MediaKeysRequirement? =
MediaKeysRequirement.OPTIONAL, persistentState: MediaKeysRequirement? =
MediaKeysRequirement.OPTIONAL, sessionTypes: Array<String>? = undefined): MediaKeySystemConfiguration
{\n  val o = js("{}")\n  o["label"] = label\n  o["initDataTypes"] = initDataTypes\n
o["audioCapabilities"] = audioCapabilities\n  o["videoCapabilities"] = videoCapabilities\n
o["distinctiveIdentifier"] = distinctiveIdentifier\n  o["persistentState"] = persistentState\n  o["sessionTypes"]
= sessionTypes\n  return o\n}\n\npublic external interface MediaKeySystemMediaCapability {\n  var
contentType: String? /* = "" */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
robustness: String? /* = "" */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
MediaKeySystemMediaCapability(contentType: String? = "", robustness: String? = ""):
MediaKeySystemMediaCapability {\n  val o = js("{}")\n  o["contentType"] = contentType\n
o["robustness"] = robustness\n  return o\n}\n\n/**\n * Exposes the JavaScript
[MediaKeySystemAccess](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemAccess) to Kotlin\n
*/\n\npublic external abstract class MediaKeySystemAccess {\n  open val keySystem: String\n  fun
getConfiguration(): MediaKeySystemConfiguration\n  fun createMediaKeys(): Promise<MediaKeys>\n}\n\n/**\n
 * Exposes the JavaScript [MediaKeys](https://developer.mozilla.org/en/docs/Web/API/MediaKeys) to Kotlin\n
*/\n\npublic external abstract class MediaKeys {\n  fun createSession(sessionType: MediaKeySessionType =
definedExternally): MediaKeySession\n  fun setServerCertificate(serverCertificate: dynamic):
Promise<Boolean>\n}\n\n/**\n * Exposes the JavaScript
[MediaKeySession](https://developer.mozilla.org/en/docs/Web/API/MediaKeySession) to Kotlin\n */\n\npublic
external abstract class MediaKeySession : EventTarget {\n  open val sessionId: String\n  open val expiration:
Double\n  open val closed: Promise<Unit>\n  open val keyStatuses: MediaKeyStatusMap\n  open var

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onkeystatuseschange: ((Event) -> dynamic)?\n  open var onmessage: ((MessageEvent) -> dynamic)?\n  fun
generateRequest(initDataType: String, initData: dynamic): Promise<Unit>\n  fun load(sessionId: String):
Promise<Boolean>\n  fun update(response: dynamic): Promise<Unit>\n  fun close(): Promise<Unit>\n  fun
remove(): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[MediaKeyStatusMap](https://developer.mozilla.org/en/docs/Web/API/MediaKeyStatusMap) to Kotlin\n */\npublic
external abstract class MediaKeyStatusMap {\n  open val size: Int\n  fun has(keyId: dynamic): Boolean\n  fun
get(keyId: dynamic): Any?\n}\n\n/**\n * Exposes the JavaScript
[MediaKeyMessageEvent](https://developer.mozilla.org/en/docs/Web/API/MediaKeyMessageEvent) to Kotlin\n
*/\npublic external open class MediaKeyMessageEvent(type: String, eventInitDict: MediaKeyMessageEventInit) :
Event {\n  open val messageType: MediaKeyMessageType\n  open val message: ArrayBuffer\n\n  companion
object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface MediaKeyMessageEventInit : EventInit {\n  var
messageType: MediaKeyMessageType?\n  var message:
ArrayBuffer?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
MediaKeyMessageEventInit(messageType: MediaKeyMessageType?, message: ArrayBuffer?, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): MediaKeyMessageEventInit {\n  val o =
js(\"({})\")\n  o[\"messageType\"] = messageType\n  o[\"message\"] = message\n  o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\npublic external open class
MediaEncryptedEvent(type: String, eventInitDict: MediaEncryptedEventInit = definedExternally) : Event {\n
open val initDataType: String\n  open val initData: ArrayBuffer?\n\n  companion object {\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n}\n\npublic external interface MediaEncryptedEventInit : EventInit {\n  var initDataType: String? /* =
\"\" */\n  get() = definedExternally\n  set(value) = definedExternally\n  var initData: ArrayBuffer? /* = null
*/\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
MediaEncryptedEventInit(initDataType: String? = \"\", initData: ArrayBuffer? = null, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): MediaEncryptedEventInit {\n  val o = js(\"({})\")\n
o[\"initDataType\"] = initDataType\n  o[\"initData\"] = initData\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"]
= cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface MediaKeysRequirement {\n  companion object\n}\n\npublic inline val
MediaKeysRequirement.Companion.REQUIRED: MediaKeysRequirement get() =
\"required\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val
MediaKeysRequirement.Companion.OPTIONAL: MediaKeysRequirement get() =
\"optional\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val
MediaKeysRequirement.Companion.NOT_ALLOWED: MediaKeysRequirement get() = \"not-
allowed\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface MediaKeySessionType {\n  companion object\n}\n\npublic inline val
MediaKeySessionType.Companion.TEMPORARY: MediaKeySessionType get() =
\"temporary\".asDynamic().unsafeCast<MediaKeySessionType>()\n\npublic inline val
MediaKeySessionType.Companion.PERSISTENT_LICENSE: MediaKeySessionType get() = \"persistent-
license\".asDynamic().unsafeCast<MediaKeySessionType>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface MediaKeyStatus {\n  companion object\n}\n\npublic inline val MediaKeyStatus.Companion.USABLE:
MediaKeyStatus get() = \"usable\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val

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MediaKeyStatus.Companion.EXPIRED: MediaKeyStatus get() =
  \"expired\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.RELEASED: MediaKeyStatus get() =
  \"released\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_RESTRICTED: MediaKeyStatus get() = \"output-
restricted\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_DOWNSCALED: MediaKeyStatus get() = \"output-
downscaled\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.STATUS_PENDING: MediaKeyStatus get() = \"status-
pending\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.INTERNAL_ERROR: MediaKeyStatus get() = \"internal-
error\".asDynamic().unsafeCast<MediaKeyStatus>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface MediaKeyMessageType {\n  companion object\n}\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_REQUEST: MediaKeyMessageType get() = \"license-
request\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RENEWAL: MediaKeyMessageType get() = \"license-
renewal\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RELEASE: MediaKeyMessageType get() = \"license-
release\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.INDIVIDUALIZATION_REQUEST: MediaKeyMessageType get() =
  \"individualization-request\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\n/*\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage
org.w3c.dom.events\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\n/**\n * Exposes
the JavaScript [UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin\n */\n\npublic external
open class UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {\n  open val view:
Window?\n  open val detail: Int\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
  }\n}\n\npublic external interface UIEventInit : EventInit {\n  var view: Window? /* = null */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var detail: Int? /* = 0 */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun UIEventInit(view: Window? = null,
detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): UIEventInit
{\n  val o = js(\"({})\")\n  o[\"view\"] = view\n  o[\"detail\"] = detail\n  o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin\n */\n\npublic external open class
FocusEvent(type: String, eventInitDict: FocusEventInit = definedExternally) : UIEvent {\n  open val relatedTarget:
EventTarget?\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val
AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface FocusEventInit :
UIEventInit {\n  var relatedTarget: EventTarget? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun FocusEventInit(relatedTarget:
EventTarget? = null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): FocusEventInit {\n  val o = js(\"({})\")\n  o[\"relatedTarget\"] =
relatedTarget\n  o[\"view\"] = view\n  o[\"detail\"] = detail\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] =
cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript

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[MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin\n *^\\npublic external open
class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent,
UnionElementOrMouseEvent {\\n  open val screenX: Int\\n  open val screenY: Int\\n  open val clientX: Int\\n
open val clientY: Int\\n  open val ctrlKey: Boolean\\n  open val shiftKey: Boolean\\n  open val altKey: Boolean\\n
open val metaKey: Boolean\\n  open val button: Short\\n  open val buttons: Short\\n  open val relatedTarget:
EventTarget?\\n  open val region: String?\\n  open val pageX: Double\\n  open val pageY: Double\\n  open val x:
Double\\n  open val y: Double\\n  open val offsetX: Double\\n  open val offsetY: Double\\n  fun
getModifierState(keyArg: String): Boolean\\n\\n  companion object {\\n    val NONE: Short\\n    val
CAPTURING_PHASE: Short\\n    val AT_TARGET: Short\\n    val BUBBLING_PHASE: Short\\n
}\\n}\\n\\npublic external interface MouseEventInit : EventModifierInit {\\n  var screenX: Int? /* = 0 */^\\n    get() =
definedExternally\\n    set(value) = definedExternally\\n  var screenY: Int? /* = 0 */^\\n    get() =
definedExternally\\n    set(value) = definedExternally\\n  var clientX: Int? /* = 0 */^\\n    get() =
definedExternally\\n    set(value) = definedExternally\\n  var clientY: Int? /* = 0 */^\\n    get() =
definedExternally\\n    set(value) = definedExternally\\n  var button: Short? /* = 0 */^\\n    get() =
definedExternally\\n    set(value) = definedExternally\\n  var buttons: Short? /* = 0 */^\\n    get() =
definedExternally\\n    set(value) = definedExternally\\n  var relatedTarget: EventTarget? /* = null */^\\n    get()
= definedExternally\\n    set(value) = definedExternally\\n  var region: String? /* = null */^\\n    get() =
definedExternally\\n    set(value) = definedExternally\\n}\\n}\\n@Suppress("\\nINVISIBLE_REFERENCE\\n",
\\nINVISIBLE_MEMBER\\n")\\n@kotlin.internal.InlineOnly\\npublic inline fun MouseEventInit(screenX: Int? = 0,
screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget:
EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean?
= false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false,
modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false,
modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false,
modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MouseEventInit {\\n  val o =
js("\\n({})")\\n  o["screenX"] = screenX\\n  o["screenY"] = screenY\\n  o["clientX"] = clientX\\n  o["clientY"]
= clientY\\n  o["button"] = button\\n  o["buttons"] = buttons\\n  o["relatedTarget"] = relatedTarget\\n
o["region"] = region\\n  o["ctrlKey"] = ctrlKey\\n  o["shiftKey"] = shiftKey\\n  o["altKey"] = altKey\\n
o["metaKey"] = metaKey\\n  o["modifierAltGraph"] = modifierAltGraph\\n  o["modifierCapsLock"] =
modifierCapsLock\\n  o["modifierFn"] = modifierFn\\n  o["modifierFnLock"] = modifierFnLock\\n
o["modifierHyper"] = modifierHyper\\n  o["modifierNumLock"] = modifierNumLock\\n
o["modifierScrollLock"] = modifierScrollLock\\n  o["modifierSuper"] = modifierSuper\\n
o["modifierSymbol"] = modifierSymbol\\n  o["modifierSymbolLock"] = modifierSymbolLock\\n  o["view"] =
view\\n  o["detail"] = detail\\n  o["bubbles"] = bubbles\\n  o["cancelable"] = cancelable\\n  o["composed"] =
composed\\n  return o\\n}\\n}\\npublic external interface EventModifierInit : UIEventInit {\\n  var ctrlKey: Boolean?
/* = false */^\\n    get() = definedExternally\\n    set(value) = definedExternally\\n  var shiftKey: Boolean? /* =
false */^\\n    get() = definedExternally\\n    set(value) = definedExternally\\n  var altKey: Boolean? /* = false
*/^\\n    get() = definedExternally\\n    set(value) = definedExternally\\n  var metaKey: Boolean? /* = false */^\\n
    get() = definedExternally\\n    set(value) = definedExternally\\n  var modifierAltGraph: Boolean? /* = false */^\\n
    get() = definedExternally\\n    set(value) = definedExternally\\n  var modifierCapsLock: Boolean? /* = false
*/^\\n    get() = definedExternally\\n    set(value) = definedExternally\\n  var modifierFn: Boolean? /* = false */^\\n
    get() = definedExternally\\n    set(value) = definedExternally\\n  var modifierFnLock: Boolean? /* = false */^\\n
    get() = definedExternally\\n    set(value) = definedExternally\\n  var modifierHyper: Boolean? /* = false */^\\n
    get() = definedExternally\\n    set(value) = definedExternally\\n  var modifierNumLock: Boolean? /* = false */^\\n
    get() = definedExternally\\n    set(value) = definedExternally\\n  var modifierScrollLock: Boolean? /* = false
*/^\\n    get() = definedExternally\\n    set(value) = definedExternally\\n  var modifierSuper: Boolean? /* = false
*/^\\n    get() = definedExternally\\n    set(value) = definedExternally\\n  var modifierSymbol: Boolean? /* = false
*/^\\n    get() = definedExternally\\n    set(value) = definedExternally\\n  var modifierSymbolLock: Boolean? /* =
false

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*/\n    get() = definedExternally\n    set(value) = definedExternally\n    var modifierSymbolLock: Boolean? /* =
false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventModifierInit(ctrlKey: Boolean? =
false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:
Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): EventModifierInit {\n    val o = js(\\"({})\")\n    o[\"ctrlKey\"] = ctrlKey\n    o[\"shiftKey\"] = shiftKey\n
o[\"altKey\"] = altKey\n    o[\"metaKey\"] = metaKey\n    o[\"modifierAltGraph\"] = modifierAltGraph\n
o[\"modifierCapsLock\"] = modifierCapsLock\n    o[\"modifierFn\"] = modifierFn\n    o[\"modifierFnLock\"] =
modifierFnLock\n    o[\"modifierHyper\"] = modifierHyper\n    o[\"modifierNumLock\"] = modifierNumLock\n
o[\"modifierScrollLock\"] = modifierScrollLock\n    o[\"modifierSuper\"] = modifierSuper\n
o[\"modifierSymbol\"] = modifierSymbol\n    o[\"modifierSymbolLock\"] = modifierSymbolLock\n    o[\"view\"] =
view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] =
composed\n    return o\n}\n\n/*\n * Exposes the JavaScript
[WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\n */\npublic external open
class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {\n    open val
deltaX: Double\n    open val deltaY: Double\n    open val deltaZ: Double\n    open val deltaMode: Int\n\n    companion object {\n        val DOM_DELTA_PIXEL: Int\n        val DOM_DELTA_LINE: Int\n        val
DOM_DELTA_PAGE: Int\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val
AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\n    public external interface WheelEventInit :
MouseEventInit {\n        var deltaX: Double? /* = 0.0 */\n            get() = definedExternally\n            set(value) =
definedExternally\n        var deltaY: Double? /* = 0.0 */\n            get() = definedExternally\n            set(value) =
definedExternally\n        var deltaZ: Double? /* = 0.0 */\n            get() = definedExternally\n            set(value) =
definedExternally\n        var deltaMode: Int? /* = 0 */\n            get() = definedExternally\n            set(value) =
definedExternally\n    }\n\n    @Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline fun WheelEventInit(deltaX: Double? = 0.0,
deltaY: Double? = 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX:
Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region:
String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean?
= false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false,
modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false,
modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false,
modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\n        val o = js(\\"({})\")\n
o[\"deltaX\"] = deltaX\n    o[\"deltaY\"] = deltaY\n    o[\"deltaZ\"] = deltaZ\n    o[\"deltaMode\"] = deltaMode\n
o[\"screenX\"] = screenX\n    o[\"screenY\"] = screenY\n    o[\"clientX\"] = clientX\n    o[\"clientY\"] = clientY\n
o[\"button\"] = button\n    o[\"buttons\"] = buttons\n    o[\"relatedTarget\"] = relatedTarget\n    o[\"region\"] =
region\n    o[\"ctrlKey\"] = ctrlKey\n    o[\"shiftKey\"] = shiftKey\n    o[\"altKey\"] = altKey\n    o[\"metaKey\"] =
metaKey\n    o[\"modifierAltGraph\"] = modifierAltGraph\n    o[\"modifierCapsLock\"] = modifierCapsLock\n
o[\"modifierFn\"] = modifierFn\n    o[\"modifierFnLock\"] = modifierFnLock\n    o[\"modifierHyper\"] =
modifierHyper\n    o[\"modifierNumLock\"] = modifierNumLock\n    o[\"modifierScrollLock\"] =
modifierScrollLock\n    o[\"modifierSuper\"] = modifierSuper\n    o[\"modifierSymbol\"] = modifierSymbol\n
o[\"modifierSymbolLock\"] = modifierSymbolLock\n    o[\"view\"] = view\n    o[\"detail\"] = detail\n
o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return
o\n}\n\n/*\n * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to

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Kotlin\n *\npublic external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) :
UIEvent {\n  open val data: String\n  open val isComposing: Boolean\n\n  companion object {\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n}\n\npublic external interface InputEventInit : UIEventInit {\n  var data: String? /* = \"\" */\n
get() = definedExternally\n  set(value) = definedExternally\n  var isComposing: Boolean? /* = false */\n
get() = definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun InputEventInit(data: String? = \"\",
isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): InputEventInit {\n  val o = js(\"({})\")\n  o[\"data\"] = data\n
o[\"isComposing\"] = isComposing\n  o[\"view\"] = view\n  o[\"detail\"] = detail\n  o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\n *\npublic external
open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\n
  open val key: String\n  open val code: String\n  open val location: Int\n  open val ctrlKey: Boolean\n  open val
  shiftKey: Boolean\n  open val altKey: Boolean\n  open val metaKey: Boolean\n  open val repeat: Boolean\n
  open val isComposing: Boolean\n  open val charCode: Int\n  open val keyCode: Int\n  open val which: Int\n
  fun getModifierState(keyArg: String): Boolean\n\n  companion object {\n    val
    DOM_KEY_LOCATION_STANDARD: Int\n    val DOM_KEY_LOCATION_LEFT: Int\n    val
    DOM_KEY_LOCATION_RIGHT: Int\n    val DOM_KEY_LOCATION_NUMPAD: Int\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n}\n\npublic external interface KeyboardEventInit : EventModifierInit {\n  var key: String? /* = \"\"
*/\n  get() = definedExternally\n  set(value) = definedExternally\n  var code: String? /* = \"\" */\n  get()
= definedExternally\n  set(value) = definedExternally\n  var location: Int? /* = 0 */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var repeat: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var isComposing: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun KeyboardEventInit(key: String? = \"\",
code: String? = \"\", location: Int? = 0, repeat: Boolean? = false, isComposing: Boolean? = false, ctrlKey: Boolean?
= false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:
Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): KeyboardEventInit {\n  val o = js(\"({})\")\n  o[\"key\"] = key\n  o[\"code\"] = code\n  o[\"location\"] =
location\n  o[\"repeat\"] = repeat\n  o[\"isComposing\"] = isComposing\n  o[\"ctrlKey\"] = ctrlKey\n
o[\"shiftKey\"] = shiftKey\n  o[\"altKey\"] = altKey\n  o[\"metaKey\"] = metaKey\n  o[\"modifierAltGraph\"] =
modifierAltGraph\n  o[\"modifierCapsLock\"] = modifierCapsLock\n  o[\"modifierFn\"] = modifierFn\n
o[\"modifierFnLock\"] = modifierFnLock\n  o[\"modifierHyper\"] = modifierHyper\n  o[\"modifierNumLock\"] =
modifierNumLock\n  o[\"modifierScrollLock\"] = modifierScrollLock\n  o[\"modifierSuper\"] = modifierSuper\n
o[\"modifierSymbol\"] = modifierSymbol\n  o[\"modifierSymbolLock\"] = modifierSymbolLock\n  o[\"view\"] =
view\n  o[\"detail\"] = detail\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n  o[\"composed\"] =
composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin\n *\npublic
external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) :
UIEvent {\n  open val data: String\n\n  companion object {\n    val NONE: Short\n    val
    CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
  }\n}\n\npublic external interface CompositionEventInit : UIEventInit {\n  var data: String? /* = \"\" */\n
get() = definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

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\ "INVISIBLE_MEMBER" )\n@kotlin.internal.InlineOnly\npublic inline fun CompositionEventInit(data: String? =
\ "", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): CompositionEventInit {\n    val o = js("{}")\n    o["data"] = data\n    o["view"] = view\n    o["detail"] = detail\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin\n *\npublic external open class
Event(type: String, eventInitDict: EventInit = definedExternally) {\n    open val type: String\n    open val target:
EventTarget?\n    open val currentTarget: EventTarget?\n    open val eventPhase: Short\n    open val bubbles:
Boolean\n    open val cancelable: Boolean\n    open val defaultPrevented: Boolean\n    open val composed:
Boolean\n    open val isTrusted: Boolean\n    open val timeStamp: Number\n    fun composedPath():
Array<EventTarget>\n    fun stopPropagation()\n    fun stopImmediatePropagation()\n    fun preventDefault()\n
fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)\n\n    companion object {\n        val NONE:
Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin\n *\npublic external abstract
class EventTarget {\n    fun addEventListener(type: String, callback: EventListener?, options: dynamic =
definedExternally)\n    fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic =
definedExternally)\n    fun removeEventListener(type: String, callback: EventListener?, options: dynamic =
definedExternally)\n    fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic =
definedExternally)\n    fun dispatchEvent(event: Event): Boolean\n}\n\n/**\n * Exposes the JavaScript
[EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\n *\npublic external
interface EventListener {\n    fun handleEvent(event: Event)\n}\n\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport
org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.mediasource.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport
org.w3c.xhr.*\n\npublic external abstract class HTMLAllCollection {\n    open val length: Int\n    fun
item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?\n    fun namedItem(name:
String): UnionElementOrHTMLCollection?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLAllCollection.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]\n\n/**\n *
Exposes the JavaScript
[HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection)
to Kotlin\n *\npublic external abstract class HTMLFormControlsCollection : HTMLCollection\n\n/**\n * Exposes
the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\n
*\npublic external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\n    open var value:
String\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\n
*\npublic external abstract class HTMLOptionsCollection : HTMLCollection {\n    override var length: Int\n    open
var selectedIndex: Int\n    fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before:
dynamic = definedExternally)\n    fun remove(index: Int)\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun

```



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HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }
Exposes the JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to
Kotlin
public external abstract class HTMLElement : Element, GlobalEventHandlers,
DocumentAndElementEventHandlers, ElementContentEditable, ElementCSSInlineStyle {
    open var title: String
    open var lang: String
    open var translate: Boolean
    open var dir: String
    open val dataset: DOMStringMap
    open var hidden: Boolean
    open var tabIndex: Int
    open var accessKey: String
    open val accessKeyLabel: String
    open var draggable: Boolean
    open val dropzone: DOMTokenList
    open var contextMenu: HTMLMenuElement?
    open var spellcheck: Boolean
    open var innerText: String
    open val offsetParent: Element?
    open val offsetTop: Int
    open val offsetLeft: Int
    open val offsetWidth: Int
    open val offsetHeight: Int
    fun click()
    fun focus()
    fun blur()
    fun forceSpellCheck()
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
Exposes the JavaScript [HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin
public external abstract class HTMLUnknownElement : HTMLElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
Exposes the JavaScript [DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin
public external abstract class DOMStringMap {
    @Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
    @kotlin.internal.InlineOnly
    public inline operator fun DOMStringMap.get(name: String): String? = asDynamic()[name]
    @Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
    @kotlin.internal.InlineOnly
    public inline operator fun DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value }
}
Exposes the JavaScript [HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin
public external abstract class HTMLHtmlElement : HTMLElement {
    open var version: String
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
Exposes the JavaScript [HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin
public

```

```

external abstract class HTMLHeadElement : HTMLElement {\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin\n *\npublic
external abstract class HTMLTitleElement : HTMLElement {\n  open var text: String\n\n  companion object {\n
    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin\n *\npublic
external abstract class HTMLBaseElement : HTMLElement {\n  open var href: String\n  open var target:
String\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n
    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin\n *\npublic
external abstract class HTMLLinkElement : HTMLElement, LinkStyle {\n  open var href: String\n  open var
crossOrigin: String?\n  open var rel: String\n  open var `as`: RequestDestination\n  open val relList:
DOMTokenList\n  open var media: String\n  open var nonce: String\n  open var hreflang: String\n  open var
type: String\n  open val sizes: DOMTokenList\n  open var referrerPolicy: String\n  open var charset: String\n
open var rev: String\n  open var target: String\n  open var scope: String\n  open var workerType:
WorkerType\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript

```

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[HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin\n *\npublic
external abstract class HTMLMetaElement : HTMLInputElement {\n    open var name: String\n    open var httpEquiv:
String\n    open var content: String\n    open var scheme: String\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin\n *\npublic
external abstract class HTMLStyleElement : HTMLInputElement, LinkStyle {\n    open var media: String\n    open var
nonce: String\n    open var type: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin\n *\npublic
external abstract class HTMLBodyElement : HTMLInputElement, WindowEventHandlers {\n    open var text: String\n
open var link: String\n    open var vLink: String\n    open var aLink: String\n    open var bgColor: String\n    open
var background: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin\n\n
*\npublic external abstract class HTMLHeadingElement : HTMLInputElement {\n    open var align: String\n\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript

```

[HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin
`*\npublic external abstract class HTMLParagraphElement : HTMLInputElement {\n open var align: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin\n *\npublic external abstract class HTMLHRElement : HTMLInputElement {\n open var align: String\n open var color: String\n open var noShade: Boolean\n open var size: String\n open var width: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin\n *\npublic external abstract class HTMLPreElement : HTMLInputElement {\n open var width: Int\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin\n *\npublic external abstract class HTMLQuoteElement : HTMLInputElement {\n open var cite: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLOListElement) to Kotlin\n *\npublic external abstract class HTMLLOListElement : HTMLInputElement {\n open var reversed: Boolean\n open var start: Int\n open var type: String\n open var compact: Boolean\n\n companion object {\n val`

```

ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUListElement) to Kotlin \n * \n public
external abstract class HTMLUListElement : HTMLInputElement { \n    open var compact: Boolean \n    open var type:
String \n \n    companion object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin \n * \n public
external abstract class HTMLLIElement : HTMLInputElement { \n    open var value: Int \n    open var type: String \n \n
companion object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement) to Kotlin \n * \n public
external abstract class HTMLDListElement : HTMLInputElement { \n    open var compact: Boolean \n \n    companion
object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin \n * \n public
external abstract class HTMLDivElement : HTMLInputElement { \n    open var align: String \n \n    companion object { \n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val

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DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin \n
* \n public external abstract class HTMLAnchorElement : HTMLElement, HTMLHyperlinkElementUtils { \n    open
var target: String \n    open var download: String \n    open var ping: String \n    open var rel: String \n    open val
relList: DOMTokenList \n    open var hreflang: String \n    open var type: String \n    open var text: String \n    open
var referrerPolicy: String \n    open var coords: String \n    open var charset: String \n    open var name: String \n
open var rev: String \n    open var shape: String \n \n    companion object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin \n
* \n public external abstract class HTMLDataElement : HTMLElement { \n    open var value: String \n \n    companion object { \n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin \n
* \n public external abstract class HTMLTimeElement : HTMLElement { \n    open var dateTime: String \n \n    companion
object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin \n
* \n public external abstract class HTMLSpanElement : HTMLElement { \n    companion object { \n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val

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DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val

DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n/n/**\n * Exposes the JavaScript [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin\n *\npublic external abstract class HTMLBRElement : HTMLElement {\n open var clear: String\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n/n/**\n * Exposes the JavaScript [HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to Kotlin\n *\npublic external interface HTMLHyperlinkElementUtils {\n var href: String\n val origin: String\n var protocol: String\n var username: String\n var password: String\n var host: String\n var hostname: String\n var port: String\n var pathname: String\n var search: String\n var hash: String\n }\n/n/**\n * Exposes the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to Kotlin\n *\npublic external abstract class HTMLModElement : HTMLElement {\n open var cite: String\n open var dateTime: String\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n/n/**\n * Exposes the JavaScript [HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin\n *\npublic external abstract class HTMLPictureElement : HTMLElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n/n/**\n * Exposes the JavaScript [HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin\n *\npublic external abstract class HTMLSourceElement : HTMLElement {\n open var src: String\n open var type: String\n open var srset: String\n open var sizes: String\n open var media: String\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val


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DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin \n
*\npublic external abstract class HTMLObjectElement : HTMLElement { \n    open var data: String \n    open var
type: String \n    open var typeMustMatch: Boolean \n    open var name: String \n    open var useMap: String \n    open
val form: HTMLFormElement? \n    open var width: String \n    open var height: String \n    open val
contentDocument: Document? \n    open val contentWindow: Window? \n    open val willValidate: Boolean \n    open
val validity: ValidityState \n    open val validationMessage: String \n    open var align: String \n    open var archive:
String \n    open var code: String \n    open var declare: Boolean \n    open var hspace: Int \n    open var standby:
String \n    open var vspace: Int \n    open var codeBase: String \n    open var codeType: String \n    open var border:
String \n    fun getSVGDocument(): Document? \n    fun checkValidity(): Boolean \n    fun reportValidity():
Boolean \n    fun setCustomValidity(error: String) \n \n    companion object { \n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        } \n} \n \n /** \n * Exposes the JavaScript
[HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin \n
*\npublic external abstract class HTMLParamElement : HTMLElement { \n    open var name: String \n    open var
value: String \n    open var type: String \n    open var valueType: String \n \n    companion object { \n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        } \n} \n \n /** \n * Exposes the JavaScript
[HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin \n
*\npublic external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource { \n
    open var width: Int \n    open var height: Int \n    open val videoWidth: Int \n    open val videoHeight: Int \n    open var
poster: String \n    open var playsInline: Boolean \n \n    companion object { \n        val NETWORK_EMPTY: Short\n
        val NETWORK_IDLE: Short\n        val NETWORK_LOADING: Short\n        val NETWORK_NO_SOURCE:
Short\n        val HAVE_NOTHING: Short\n        val HAVE_METADATA: Short\n        val
HAVE_CURRENT_DATA: Short\n        val HAVE_FUTURE_DATA: Short\n        val HAVE_ENOUGH_DATA:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin \n
*/ \n public external abstract class HTMLAudioElement : HTMLMediaElement { \n    companion object { \n    val
NETWORK_EMPTY: Short\n    val NETWORK_IDLE: Short\n    val NETWORK_LOADING: Short\n
val NETWORK_NO_SOURCE: Short\n    val HAVE_NOTHING: Short\n    val HAVE_METADATA:
Short\n    val HAVE_CURRENT_DATA: Short\n    val HAVE_FUTURE_DATA: Short\n    val
HAVE_ENOUGH_DATA: Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin \n
*/ \n public external abstract class HTMLTrackElement : HTMLMediaElement { \n    open var kind: String \n
    open var src: String \n
    open var srclang: String \n    open var label: String \n    open var default: Boolean \n    open val readyState: Short\n
    open val track: TextTrack \n \n    companion object { \n    val NONE: Short\n    val LOADING: Short\n    val
LOADED: Short\n    val ERROR: Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin \n
*/ \n public external abstract class HTMLMediaElement : HTMLMediaElement { \n    open val error: MediaError? \n
    open var src: String \n    open var srcObject: MediaProvider? \n    open val currentSrc: String \n    open var crossOrigin:
String? \n    open val networkState: Short\n    open var preload: String \n    open val buffered: TimeRanges \n    open
val readyState: Short\n    open val seeking: Boolean \n    open var currentTime: Double \n    open val duration:
Double \n    open val paused: Boolean \n    open var defaultPlaybackRate: Double \n    open var playbackRate:
Double \n    open val played: TimeRanges \n    open val seekable: TimeRanges \n    open val ended: Boolean \n    open
var autoplay: Boolean \n    open var loop: Boolean \n    open var controls: Boolean \n    open var volume: Double \n
    open var muted: Boolean \n    open var defaultMuted: Boolean \n    open val audioTracks: AudioTrackList \n    open
val videoTracks: VideoTrackList \n    open val textTracks: TextTrackList \n    open val mediaKeys: MediaKeys? \n
    open var onencrypted: ((Event) -> dynamic)? \n    open var onwaitingforkey: ((Event) -> dynamic)? \n    fun load() \n
    fun canPlayType(type: String): CanPlayTypeResult \n    fun fastSeek(time: Double) \n    fun getStartDate():
dynamic \n    fun play(): Promise<Unit> \n    fun pause() \n    fun addTextTrack(kind: TextTrackKind, label: String =
definedExternally, language: String = definedExternally): TextTrack \n    fun setMediaKeys(mediaKeys:
MediaKeys?): Promise<Unit> \n \n    companion object { \n    val NETWORK_EMPTY: Short\n    val
NETWORK_IDLE: Short\n    val NETWORK_LOADING: Short\n    val NETWORK_NO_SOURCE: Short\n

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val HAVE_NOTHING: Short\n    val HAVE_METADATA: Short\n    val HAVE_CURRENT_DATA:
Short\n    val HAVE_FUTURE_DATA: Short\n    val HAVE_ENOUGH_DATA: Short\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin\n */\npublic external abstract
class MediaError {\n    open val code: Short\n\n    companion object {\n        val MEDIA_ERR_ABORTED: Short\n        val MEDIA_ERR_NETWORK: Short\n        val MEDIA_ERR_DECODE: Short\n        val
MEDIA_ERR_SRC_NOT_SUPPORTED: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin\n */\npublic external
abstract class AudioTrackList : EventTarget {\n    open val length: Int\n    open var onchange: ((Event) ->
dynamic)?\n    open var onaddtrack: ((TrackEvent) -> dynamic)?\n    open var onremovetrack: ((TrackEvent) ->
dynamic)?\n    fun getTrackById(id: String): AudioTrack?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun AudioTrackList.get(index:
Int): AudioTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin\n */\npublic external abstract
class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n    open val id: String\n    open val kind:
String\n    open val label: String\n    open val language: String\n    open var enabled: Boolean\n    open val
sourceBuffer: SourceBuffer?\n}\n\n/**\n * Exposes the JavaScript
[VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin\n */\npublic external
abstract class VideoTrackList : EventTarget {\n    open val length: Int\n    open val selectedIndex: Int\n    open var
onchange: ((Event) -> dynamic)?\n    open var onaddtrack: ((TrackEvent) -> dynamic)?\n    open var
onremovetrack: ((TrackEvent) -> dynamic)?\n    fun getTrackById(id: String):
VideoTrack?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun VideoTrackList.get(index:
Int): VideoTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin\n */\npublic external abstract
class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n    open val id: String\n    open val kind:
String\n    open val label: String\n    open val language: String\n    open var selected: Boolean\n    open val
sourceBuffer: SourceBuffer?\n}\n\npublic external abstract class TextTrackList : EventTarget {\n    open val length:
Int\n    open var onchange: ((Event) -> dynamic)?\n    open var onaddtrack: ((TrackEvent) -> dynamic)?\n    open
var onremovetrack: ((TrackEvent) -> dynamic)?\n    fun getTrackById(id: String):
TextTrack?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackList.get(index: Int):
TextTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin\n */\npublic external abstract
class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {\n    open val kind: TextTrackKind\n    open
val label: String\n    open val language: String\n    open val id: String\n    open val
inBandMetadataTrackDispatchType: String\n    open var mode: TextTrackMode\n    open val cues:
TextTrackCueList?\n    open val activeCues: TextTrackCueList?\n    open var oncuechange: ((Event) ->
dynamic)?\n    open val sourceBuffer: SourceBuffer?\n    fun addCue(cue: TextTrackCue)\n    fun removeCue(cue:
TextTrackCue)\n}\n\npublic external abstract class TextTrackCueList {\n    open val length: Int\n    fun

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getCueById(id: String): TextTrackCue?\n\n\n@Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackCueList.get(index:
Int): TextTrackCue? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\n *\npublic external
abstract class TextTrackCue : EventTarget {\n    open val track: TextTrack?\n    open var id: String\n    open var
startTime: Double\n    open var endTime: Double\n    open var pauseOnExit: Boolean\n    open var onenter: ((Event)
-> dynamic)?\n    open var onexit: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the JavaScript
[TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\n *\npublic external abstract
class TimeRanges {\n    open val length: Int\n    fun start(index: Int): Double\n    fun end(index: Int):
Double\n}\n\n/**\n * Exposes the JavaScript
[TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\n *\npublic external open class
TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {\n    open val track:
UnionAudioTrackOrTextTrackOrVideoTrack?\n\n    companion object {\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface TrackEventInit : EventInit {\n    var track:
UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic inline fun TrackEventInit(track:
UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): TrackEventInit {\n    val o = js("\${}")\n    o["track"] = track\n    o["bubbles"] =
bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\n/**\n * Exposes the
JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\n *\npublic external abstract class HTMLElement : HTMLDivElement {\n    open var name: String\n    open val
areas: HTMLCollection\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val
DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin\n *\npublic
external abstract class HTMLAreaElement : HTMLDivElement, HTMLHyperlinkElementUtils {\n    open var alt:
String\n    open var coords: String\n    open var shape: String\n    open var target: String\n    open var download:
String\n    open var ping: String\n    open var rel: String\n    open val relList: DOMTokenList\n    open var
referrerPolicy: String\n    open var noHref: Boolean\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val
DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin\n *\npublic

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COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin \n
*/ \n public external abstract class HTMLTableRowElement : HTMLElement { \n    open val rowIndex: Int \n    open
val sectionRowIndex: Int \n    open val cells: HTMLCollection \n    open var align: String \n    open var ch: String \n
open var chOff: String \n    open var vAlign: String \n    open var bgColor: String \n    fun insertCell(index: Int =
definedExternally): HTMLElement \n    fun deleteCell(index: Int) \n \n    companion object { \n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin \n
*/ \n public external abstract class HTMLTableCellElement : HTMLElement { \n    open var colSpan: Int \n    open var
rowSpan: Int \n    open var headers: String \n    open val cellIndex: Int \n    open var scope: String \n    open var abbr:
String \n    open var align: String \n    open var axis: String \n    open var height: String \n    open var width: String \n
open var ch: String \n    open var chOff: String \n    open var noWrap: Boolean \n    open var vAlign: String \n    open
var bgColor: String \n \n    companion object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin \n
*/ \n public external abstract class HTMLFormElement : HTMLElement { \n    open var acceptCharset: String \n    open var
action: String \n    open var autocomplete: String \n    open var enctype: String \n    open var encoding: String \n    open
var method: String \n    open var name: String \n    open var noValidate: Boolean \n    open var target: String \n    open
val elements: HTMLFormControlsCollection \n    open val length: Int \n    fun submit() \n    fun reset() \n    fun
checkValidity(): Boolean \n    fun reportValidity(): Boolean \n \n    companion object { \n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLFormElement.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLFormElement.get(name: String): UnionElementOrRadioNodeList? = asDynamic()[name]\n\n/**\n * Exposes
the JavaScript [HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to
Kotlin\n */\npublic external abstract class HTMLLabelElement : HTMLInputElement {\n    open val form:
HTMLFormElement?\n    open var htmlFor: String\n    open val control: HTMLFormElement?\n\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n\n    /**\n * Exposes the JavaScript
[HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin\n */\npublic
external abstract class HTMLInputElement : HTMLFormElement {\n    open var accept: String\n    open var alt: String\n
open var autocomplete: String\n    open var autofocus: Boolean\n    open var defaultChecked: Boolean\n    open var
checked: Boolean\n    open var dirName: String\n    open var disabled: Boolean\n    open val form:
HTMLFormElement?\n    open val files: FileList?\n    open var formAction: String\n    open var formEnctype:
String\n    open var formMethod: String\n    open var formNoValidate: Boolean\n    open var formTarget: String\n
open var height: Int\n    open var indeterminate: Boolean\n    open var inputMode: String\n    open val list:
HTMLFormElement?\n    open var max: String\n    open var maxLength: Int\n    open var min: String\n    open var
minLength: Int\n    open var multiple: Boolean\n    open var name: String\n    open var pattern: String\n    open var
placeholder: String\n    open var readOnly: Boolean\n    open var required: Boolean\n    open var size: Int\n    open
var src: String\n    open var step: String\n    open var type: String\n    open var defaultValue: String\n    open var
value: String\n    open var valueAsDate: dynamic\n    open var valueAsNumber: Double\n    open var width: Int\n
open val willValidate: Boolean\n    open val validity: ValidityState\n    open val validationMessage: String\n    open
val labels: NodeList\n    open var selectionStart: Int?\n    open var selectionEnd: Int?\n    open var
selectionDirection: String?\n    open var align: String\n    open var useMap: String\n    fun stepUp(n: Int =
definedExternally)\n    fun stepDown(n: Int = definedExternally)\n    fun checkValidity(): Boolean\n    fun
reportValidity(): Boolean\n    fun setCustomValidity(error: String)\n    fun select()\n    fun
setRangeText(replacement: String)\n    fun setRangeText(replacement: String, start: Int, end: Int, selectionMode:
SelectionMode = definedExternally)\n    fun setSelectionRange(start: Int, end: Int, direction: String =
definedExternally)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val

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Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin \n
*/ \n public external abstract class HTMLOptGroupElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement { \n    open var disabled: Boolean \n    open var label:
String \n \n    companion object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin \n
*/ \n public external abstract class HTMLOptionElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement { \n    open var disabled: Boolean \n    open var form:
HTMLFormElement? \n    open var label: String \n    open var defaultSelected: Boolean \n    open var selected:
Boolean \n    open var value: String \n    open var text: String \n    open val index: Int \n \n    companion object { \n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin \n
*/ \n public external abstract class HTMLTextAreaElement : HTMLInputElement { \n    open var autocomplete: String \n
    open var autofocus: Boolean \n    open var cols: Int \n    open var dirName: String \n    open var disabled: Boolean \n
    open val form: HTMLFormElement? \n    open var inputMode: String \n    open var maxLength: Int \n    open var
minLength: Int \n    open var name: String \n    open var placeholder: String \n    open var readOnly: Boolean \n    open
var required: Boolean \n    open var rows: Int \n    open var wrap: String \n    open val type: String \n    open var
defaultValue: String \n    open var value: String \n    open val textLength: Int \n    open val willValidate: Boolean \n
    open val validity: ValidityState \n    open val validationMessage: String \n    open val labels: NodeList \n    open var
selectionStart: Int? \n    open var selectionEnd: Int? \n    open var selectionDirection: String? \n    fun checkValidity():
Boolean \n    fun reportValidity(): Boolean \n    fun setCustomValidity(error: String) \n    fun select() \n    fun
setRangeText(replacement: String) \n    fun setRangeText(replacement: String, start: Int, end: Int, selectionMode:
SelectionMode = definedExternally) \n    fun setSelectionRange(start: Int, end: Int, direction: String =
definedExternally) \n \n    companion object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:

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Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin\n
*\n\npublic external abstract class HTMLKeygenElement : HTMLInputElement {\n    open var autofocus: Boolean\n
open var challenge: String\n    open var disabled: Boolean\n    open val form: HTMLFormElement?\n    open var
keytype: String\n    open var name: String\n    open val type: String\n    open val willValidate: Boolean\n    open val
validity: ValidityState\n    open val validationMessage: String\n    open val labels: NodeList\n    fun checkValidity():
Boolean\n    fun reportValidity(): Boolean\n    fun setCustomValidity(error: String)\n\n    companion object {\n
val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to Kotlin\n
*\n\npublic external abstract class HTMLOutputElement : HTMLInputElement {\n    open val htmlFor: DOMTokenList\n
open val form: HTMLFormElement?\n    open var name: String\n    open val type: String\n    open var
defaultValue: String\n    open var value: String\n    open val willValidate: Boolean\n    open val validity:
ValidityState\n    open val validationMessage: String\n    open val labels: NodeList\n    fun checkValidity():
Boolean\n    fun reportValidity(): Boolean\n    fun setCustomValidity(error: String)\n\n    companion object {\n
val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin\n
*\n\npublic external abstract class HTMLProgressElement : HTMLInputElement {\n    open var value: Double\n    open
var max: Double\n    open val position: Double\n    open val labels: NodeList\n\n    companion object {\n
val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n

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    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin\n
*/\npublic external abstract class HTMLMeterElement : HTMLElement {\n    open var value: Double\n    open var min:
Double\n    open var max: Double\n    open var low: Double\n    open var high: Double\n    open var optimum:
Double\n    open val labels: NodeList\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin\n
*/\npublic external abstract class HTMLFieldSetElement : HTMLFormElement {\n    open var disabled: Boolean\n
open val form: HTMLFormElement?\n    open var name: String\n    open val type: String\n    open val elements:
HTMLCollection\n    open val willValidate: Boolean\n    open val validity: ValidityState\n    open val
validationMessage: String\n    fun checkValidity(): Boolean\n    fun reportValidity(): Boolean\n    fun
setCustomValidity(error: String)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin\n
*/\npublic external abstract class HTMLLegendElement : HTMLFormElement {\n    open val form:
HTMLFormElement?\n    open var align: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\n
*/\npublic external abstract class ValidityState {\n    open val valueMissing: Boolean\n    open val typeMismatch: Boolean\n    open val
patternMismatch: Boolean\n    open val tooLong: Boolean\n    open val tooShort: Boolean\n    open val
rangeUnderflow: Boolean\n    open val rangeOverflow: Boolean\n    open val stepMismatch: Boolean\n    open val
badInput: Boolean\n    open val customError: Boolean\n    open val valid: Boolean\n}\n\n\n/**\n * Exposes the

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JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to Kotlin
*\npublic external abstract class HTMLDetailsElement : HTMLInputElement {\n  open var open: Boolean\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external abstract class HTMLMenuElement : HTMLInputElement {\n  open var type: String\n  open var label: String\n  open var compact: Boolean\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external abstract class HTMLMenuItemElement : HTMLInputElement {\n  open var type: String\n  open var label: String\n  open var icon: String\n  open var disabled: Boolean\n  open var checked: Boolean\n  open var radiogroup: String\n  open var default: Boolean\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external open class RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\n  open val relatedTarget: EventTarget?\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface RelatedEventInit : EventInit {\n  var relatedTarget: EventTarget? /* = null */\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun RelatedEventInit(relatedTarget: EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): RelatedEventInit {\n  val o = js("{}")\n  o["relatedTarget"] = relatedTarget\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/* Exposes the JavaScript [HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin */\n\npublic external abstract class HTMLDialogElement : HTMLInputElement {\n  open var open: Boolean\n  open var returnValue: String\n  fun show(anchor: UnionElementOrMouseEvent = definedExternally)\n  fun showModal(anchor: UnionElementOrMouseEvent = definedExternally)\n  fun close(returnValue: String = definedExternally)\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val

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ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin \n * \n public
external abstract class HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement { \n    open var src:
String \n    open var type: String \n    open var charset: String \n    open var async: Boolean \n    open var defer:
Boolean \n    open var crossOrigin: String? \n    open var text: String \n    open var nonce: String \n    open var event:
String \n    open var htmlFor: String \n \n    companion object { \n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin \n * \n public
external abstract class HTMLTemplateElement : HTMLElement { \n    open val content:
DocumentFragment \n \n    companion object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin \n * \n public
external abstract class HTMLSlotElement : HTMLElement { \n    open var name: String \n    fun
assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node> \n \n    companion object { \n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n public external interface
AssignedNodesOptions { \n    var flatten: Boolean? /* = false */ \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n \n @Suppress(\"INVISIBLE_REFERENCE\")

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\ "INVISIBLE_MEMBER" )\n @kotlin.internal.InlineOnly\n public inline fun AssignedNodesOptions(flatten: Boolean? = false): AssignedNodesOptions {\n     val o = js("{}")\n     o["flatten"] = flatten\n     return o\n }\n\n /**\n  * Exposes the JavaScript [HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to Kotlin\n  */\n public external abstract class HTMLCanvasElement : HTMLElement, CanvasImageSource, TexImageSource {\n     open var width: Int\n     open var height: Int\n     fun getContext(contextId: String, vararg arguments: Any?): RenderingContext?\n     fun toDataURL(type: String = definedExternally, quality: Any? = definedExternally): String\n     fun toBlob(_callback: (Blob?) -> Unit, type: String = definedExternally, quality: Any? = definedExternally)\n     companion object {\n         val ELEMENT_NODE: Short\n         val ATTRIBUTE_NODE: Short\n         val TEXT_NODE: Short\n         val CDATA_SECTION_NODE: Short\n         val ENTITY_REFERENCE_NODE: Short\n         val ENTITY_NODE: Short\n         val PROCESSING_INSTRUCTION_NODE: Short\n         val COMMENT_NODE: Short\n         val DOCUMENT_NODE: Short\n         val DOCUMENT_TYPE_NODE: Short\n         val DOCUMENT_FRAGMENT_NODE: Short\n         val NOTATION_NODE: Short\n         val DOCUMENT_POSITION_DISCONNECTED: Short\n         val DOCUMENT_POSITION_PRECEDING: Short\n         val DOCUMENT_POSITION_FOLLOWING: Short\n         val DOCUMENT_POSITION_CONTAINS: Short\n         val DOCUMENT_POSITION_CONTAINED_BY: Short\n     }\n }\n\n public external interface CanvasRenderingContext2DSettings {\n     var alpha: Boolean? /* = true */\n     get() = definedExternally\n     set(value) = definedExternally\n }\n\n @Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n @kotlin.internal.InlineOnly\n public inline fun CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings {\n     val o = js("{}")\n     o["alpha"] = alpha\n     return o\n }\n\n /**\n  * Exposes the JavaScript [CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to Kotlin\n  */\n public external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform, CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters, CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion, CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext {\n     open val canvas: HTMLCanvasElement\n }\n\n public external interface CanvasState {\n     fun save()\n     fun restore()\n }\n\n public external interface CanvasTransform {\n     fun scale(x: Double, y: Double)\n     fun rotate(angle: Double)\n     fun translate(x: Double, y: Double)\n     fun transform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double)\n     fun getTransform(): DOMMatrix\n     fun setTransform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double)\n     fun setTransform(transform: dynamic = definedExternally)\n     fun resetTransform()\n }\n\n public external interface CanvasCompositing {\n     var globalAlpha: Double\n     var globalCompositeOperation: String\n }\n\n public external interface CanvasImageSmoothing {\n     var imageSmoothingEnabled: Boolean\n     var imageSmoothingQuality: ImageSmoothingQuality\n }\n\n public external interface CanvasFillStrokeStyles {\n     var strokeStyle: dynamic\n     get() = definedExternally\n     set(value) = definedExternally\n     var fillStyle: dynamic\n     get() = definedExternally\n     set(value) = definedExternally\n     fun createLinearGradient(x0: Double, y0: Double, x1: Double, y1: Double): CanvasGradient\n     fun createRadialGradient(x0: Double, y0: Double, r0: Double, x1: Double, y1: Double, r1: Double): CanvasGradient\n     fun createPattern(image: CanvasImageSource, repetition: String): CanvasPattern?\n }\n\n public external interface CanvasShadowStyles {\n     var shadowOffsetX: Double\n     var shadowOffsetY: Double\n     var shadowBlur: Double\n     var shadowColor: String\n }\n\n public external interface CanvasFilters {\n     var filter: String\n }\n\n public external interface CanvasRect {\n     fun clearRect(x: Double, y: Double, w: Double, h: Double)\n     fun fillRect(x: Double, y: Double, w: Double, h: Double)\n     fun strokeRect(x: Double, y: Double, w: Double, h: Double)\n }\n\n public external interface CanvasDrawPath {\n     fun beginPath()\n     fun fill(fillRule: CanvasFillRule = definedExternally)\n     fun fill(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n     fun stroke()\n     fun stroke(path: Path2D)\n     fun clip(fillRule: CanvasFillRule = definedExternally)\n     fun

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clip(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n fun resetClip()\n fun isPointInPath(x:
Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n fun isPointInPath(path: Path2D, x:
Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n fun isPointInStroke(x: Double, y:
Double): Boolean\n fun isPointInStroke(path: Path2D, x: Double, y: Double): Boolean\n}\n\npublic external
interface CanvasUserInterface {\n fun drawFocusIfNeeded(element: Element)\n fun drawFocusIfNeeded(path:
Path2D, element: Element)\n fun scrollPathIntoView()\n fun scrollPathIntoView(path: Path2D)\n}\n\npublic
external interface CanvasText {\n fun fillText(text: String, x: Double, y: Double, maxWidth: Double =
definedExternally)\n fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)\n
fun measureText(text: String): TextMetrics\n}\n\npublic external interface CanvasDrawImage {\n fun
drawImage(image: CanvasImageSource, dx: Double, dy: Double)\n fun drawImage(image: CanvasImageSource,
dx: Double, dy: Double, dw: Double, dh: Double)\n fun drawImage(image: CanvasImageSource, sx: Double, sy:
Double, sw: Double, sh: Double, dx: Double, dy: Double, dw: Double, dh: Double)\n}\n\npublic external interface
CanvasHitRegion {\n fun addHitRegion(options: HitRegionOptions = definedExternally)\n fun
removeHitRegion(id: String)\n fun clearHitRegions()\n}\n\npublic external interface CanvasImageData {\n fun
createImageData(sw: Double, sh: Double): ImageData\n fun createImageData(imagedata: ImageData):
ImageData\n fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double): ImageData\n fun
putImageData(imagedata: ImageData, dx: Double, dy: Double)\n fun putImageData(imagedata: ImageData, dx:
Double, dy: Double, dirtyX: Double, dirtyY: Double, dirtyWidth: Double, dirtyHeight: Double)\n}\n\npublic
external interface CanvasPathDrawingStyles {\n var lineWidth: Double\n var lineCap: CanvasLineCap\n var
lineJoin: CanvasLineJoin\n var miterLimit: Double\n var lineDashOffset: Double\n fun setLineDash(segments:
Array<Double>)\n fun getLineDash(): Array<Double>\n}\n\npublic external interface CanvasTextDrawingStyles
{\n var font: String\n var textAlign: CanvasTextAlign\n var textBaseline: CanvasTextBaseline\n var
direction: CanvasDirection\n}\n\npublic external interface CanvasPath {\n fun closePath()\n fun moveTo(x:
Double, y: Double)\n fun lineTo(x: Double, y: Double)\n fun quadraticCurveTo(cpx: Double, cpy: Double, x:
Double, y: Double)\n fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y:
Double)\n fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n fun arcTo(x1: Double,
y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n fun rect(x: Double, y:
Double, w: Double, h: Double)\n fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle:
Double, anticlockwise: Boolean = definedExternally)\n fun ellipse(x: Double, y: Double, radiusX: Double,
radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\n */\n\npublic external
abstract class CanvasGradient {\n fun addColorStop(offset: Double, color: String)\n}\n\n/**\n * Exposes the
JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\n */\n\npublic
external abstract class CanvasPattern {\n fun setTransform(transform: dynamic = definedExternally)\n}\n\n/**\n *
Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\n
*/\n\npublic external abstract class TextMetrics {\n open val width: Double\n open val actualBoundingBoxLeft:
Double\n open val actualBoundingBoxRight: Double\n open val fontBoundingBoxAscent: Double\n open val
fontBoundingBoxDescent: Double\n open val actualBoundingBoxAscent: Double\n open val
actualBoundingBoxDescent: Double\n open val emHeightAscent: Double\n open val emHeightDescent:
Double\n open val hangingBaseline: Double\n open val alphabeticBaseline: Double\n open val
ideographicBaseline: Double\n}\n\npublic external interface HitRegionOptions {\n var path: Path2D? /* = null
*/\n fun get() = definedExternally\n set(value) = definedExternally\n var fillRule: CanvasFillRule? /* =
CanvasFillRule.NONZERO */\n fun get() = definedExternally\n set(value) = definedExternally\n var id:
String? /* = \"\" */\n fun get() = definedExternally\n set(value) = definedExternally\n var parentID: String? /*
= null */\n fun get() = definedExternally\n set(value) = definedExternally\n var cursor: String? /* = \"inherit\"
*/\n fun get() = definedExternally\n set(value) = definedExternally\n var control: Element? /* = null */\n
fun get() = definedExternally\n set(value) = definedExternally\n var label: String? /* = null */\n fun get() =

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definedExternally\n    set(value) = definedExternally\n    var role: String? /* = null */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun HitRegionOptions(path: Path2D? =
null, fillRule: CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = \"\", parentID: String? = null, cursor:
String? = \"inherit\", control: Element? = null, label: String? = null, role: String? = null): HitRegionOptions {\n    val
o = js(\"({})\")\n    o[\"path\"] = path\n    o[\"fillRule\"] = fillRule\n    o[\"id\"] = id\n    o[\"parentID\"] = parentID\n    o[\"cursor\"] = cursor\n    o[\"control\"] = control\n    o[\"label\"] = label\n    o[\"role\"] = role\n    return
o\n}\n\n/**\n * Exposes the JavaScript [ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to
Kotlin\n *\npublic external open class ImageData : ImageBitmapSource, TexImageSource {\n    constructor(sw:
Int, sh: Int)\n    constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)\n    open val width: Int\n    open val height: Int\n    open val data: Uint8ClampedArray\n}\n\n/**\n * Exposes the JavaScript
[Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin\n *\npublic external open class
Path2D() : CanvasPath {\n    constructor(path: Path2D)\n    constructor(paths: Array<Path2D>, fillRule:
CanvasFillRule = definedExternally)\n    constructor(d: String)\n    fun addPath(path: Path2D, transform: dynamic =
definedExternally)\n    override fun closePath()\n    override fun moveTo(x: Double, y: Double)\n    override fun
lineTo(x: Double, y: Double)\n    override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n
    override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n
    override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n    override fun arcTo(x1:
Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n    override fun
rect(x: Double, y: Double, w: Double, h: Double)\n    override fun arc(x: Double, y: Double, radius: Double,
startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */)\n    override fun ellipse(x:
Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double,
anticlockwise: Boolean /* = definedExternally */)\n}\n\n/**\n * Exposes the JavaScript
[ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext)
to Kotlin\n *\npublic external abstract class ImageBitmapRenderingContext {\n    open val canvas:
HTMLCanvasElement\n    fun transferFromImageBitmap(bitmap: ImageBitmap?)\n}\n\npublic external interface
ImageBitmapRenderingContextSettings {\n    var alpha: Boolean? /* = true */\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\n    val o
= js(\"({})\")\n    o[\"alpha\"] = alpha\n    return o\n}\n\n/**\n * Exposes the JavaScript
[CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin\n *\npublic external abstract class CustomElementRegistry {\n    fun define(name: String, constructor: () -> dynamic,
options: ElementDefinitionOptions = definedExternally)\n    fun get(name: String): Any?\n    fun
whenDefined(name: String): Promise<Unit>\n}\n\npublic external interface ElementDefinitionOptions {\n    var
extends: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ElementDefinitionOptions(extends:
String? = undefined): ElementDefinitionOptions {\n    val o = js(\"({})\")\n    o[\"extends\"] = extends\n    return
o\n}\n\npublic external interface ElementContentEditable {\n    var contentEditable: String\n    val
isContentEditable: Boolean\n}\n\n/**\n * Exposes the JavaScript
[DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin\n *\npublic external
abstract class DataTransfer {\n    open var dropEffect: String\n    open var effectAllowed: String\n    open val items:
DataTransferItemList\n    open val types: Array<out String>\n    open val files: FileList\n    fun
setDragImage(image: Element, x: Int, y: Int)\n    fun getData(format: String): String\n    fun setData(format: String,
data: String)\n    fun clearData(format: String = definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin\n *\npublic
external abstract class DataTransferItemList {\n    open val length: Int\n    fun add(data: String, type: String):

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DataTransferItem? \n fun add(data: File): DataTransferItem? \n fun remove(index: Int) \n fun
clear() \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun
DataTransferItemList.get(index: Int): DataTransferItem? = asDynamic()[index] \n \n /** \n * Exposes the JavaScript
[DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin \n * \n public
external abstract class DataTransferItem { \n open val kind: String \n open val type: String \n fun
getAsString(_callback: ((String) -> Unit)?): \n fun getAsFile(): File? \n \n /** \n * Exposes the JavaScript
[DragEvent](https://developer.mozilla.org/en/docs/Web/API/TouchEvent) to Kotlin \n * \n public external open class
DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent { \n open val
dataTransfer: DataTransfer? \n \n companion object { \n val NONE: Short \n val CAPTURING_PHASE:
Short \n val AT_TARGET: Short \n val BUBBLING_PHASE: Short \n } \n \n public external interface
DragEventInit : MouseEventInit { \n var dataTransfer: DataTransfer? /* = null */ \n get() = definedExternally \n
set(value) = definedExternally \n \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun DragEventInit(dataTransfer:
DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0,
buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey:
Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): DragEventInit { \n val o = js("{}") \n o["dataTransfer"] = dataTransfer \n o["screenX"] = screenX \n
o["screenY"] = screenY \n o["clientX"] = clientX \n o["clientY"] = clientY \n o["button"] = button \n
o["buttons"] = buttons \n o["relatedTarget"] = relatedTarget \n o["region"] = region \n o["ctrlKey"] =
ctrlKey \n o["shiftKey"] = shiftKey \n o["altKey"] = altKey \n o["metaKey"] = metaKey \n
o["modifierAltGraph"] = modifierAltGraph \n o["modifierCapsLock"] = modifierCapsLock \n
o["modifierFn"] = modifierFn \n o["modifierFnLock"] = modifierFnLock \n o["modifierHyper"] =
modifierHyper \n o["modifierNumLock"] = modifierNumLock \n o["modifierScrollLock"] =
modifierScrollLock \n o["modifierSuper"] = modifierSuper \n o["modifierSymbol"] = modifierSymbol \n
o["modifierSymbolLock"] = modifierSymbolLock \n o["view"] = view \n o["detail"] = detail \n
o["bubbles"] = bubbles \n o["cancelable"] = cancelable \n o["composed"] = composed \n return
o \n } \n \n /** \n * Exposes the JavaScript [Window](https://developer.mozilla.org/en/docs/Web/API/Window) to
Kotlin \n * \n public external abstract class Window : EventTarget, GlobalEventHandlers, WindowEventHandlers,
WindowOrWorkerGlobalScope, WindowSessionStorage, WindowLocalStorage, GlobalPerformance,
UnionMessagePortOrWindowProxy { \n open val window: Window \n open val self: Window \n open val
document: Document \n open var name: String \n open val location: Location \n open val history: History \n
open val customElements: CustomElementRegistry \n open val locationbar: BarProp \n open val menubar:
BarProp \n open val personalbar: BarProp \n open val scrollbars: BarProp \n open val statusbar: BarProp \n
open val toolbar: BarProp \n open var status: String \n open val closed: Boolean \n open val frames: Window \n
open val length: Int \n open val top: Window \n open var opener: Any? \n open val parent: Window \n open val
frameElement: Element? \n open val navigator: Navigator \n open val applicationCache: ApplicationCache \n
open val external: External \n open val screen: Screen \n open val innerWidth: Int \n open val innerHeight: Int \n
open val scrollX: Double \n open val pageXOffset: Double \n open val scrollY: Double \n open val
pageYOffset: Double \n open val screenX: Int \n open val screenY: Int \n open val outerWidth: Int \n open val
outerHeight: Int \n open val devicePixelRatio: Double \n fun close() \n fun stop() \n fun focus() \n fun blur() \n
fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally):
Window? \n fun alert() \n fun alert(message: String) \n fun confirm(message: String = definedExternally):
Boolean \n fun prompt(message: String = definedExternally, default: String = definedExternally): String? \n fun

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print()\n fun requestAnimationFrame(callback: (Double) -> Unit): Int\n fun cancelAnimationFrame(handle:
Int)\n fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally)\n
fun captureEvents()\n fun releaseEvents()\n fun matchMedia(query: String): MediaQueryList\n fun moveTo(x:
Int, y: Int)\n fun moveBy(x: Int, y: Int)\n fun resizeTo(x: Int, y: Int)\n fun resizeBy(x: Int, y: Int)\n fun
scroll(options: ScrollToOptions = definedExternally)\n fun scroll(x: Double, y: Double)\n fun scrollTo(options:
ScrollToOptions = definedExternally)\n fun scrollTo(x: Double, y: Double)\n fun scrollBy(options:
ScrollToOptions = definedExternally)\n fun scrollBy(x: Double, y: Double)\n fun getComputedStyle(elt:
Element, pseudoElt: String? = definedExternally):
CSSStyleDeclaration\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Window.get(name: String):
dynamic = asDynamic()[name]\n\npublic external abstract class BarProp {\n open val visible: Boolean\n}\n\n/**\n * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\n */\n\npublic
external abstract class History {\n open val length: Int\n open var scrollRestoration: ScrollRestoration\n open
val state: Any?\n fun go(delta: Int = definedExternally)\n fun back()\n fun forward()\n fun pushState(data:
Any?, title: String, url: String? = definedExternally)\n fun replaceState(data: Any?, title: String, url: String? =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin\n */\n\npublic external abstract class
Location {\n open var href: String\n open val origin: String\n open var protocol: String\n open var host:
String\n open var hostname: String\n open var port: String\n open var pathname: String\n open var search:
String\n open var hash: String\n open val ancestorOrigins: Array<out String>\n fun assign(url: String)\n fun
replace(url: String)\n fun reload()\n}\n\n/**\n * Exposes the JavaScript
[PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\n */\n\npublic external
open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\n open val
state: Any?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface PopStateEventInit
: EventInit {\n var state: Any? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PopStateEventInit(state: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit {\n val o
= js(\"({})\")\n o[\"state\"] = state\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin\n */\n\npublic
external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) :
Event {\n open val oldURL: String\n open val newURL: String\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\npublic external interface HashChangeEventInit : EventInit {\n var oldURL: String? /* = \"\" */\n
get() = definedExternally\n set(value) = definedExternally\n var newURL: String? /* = \"\" */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun HashChangeEventInit(oldURL:
String? = \"\", newURL: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): HashChangeEventInit {\n val o = js(\"({})\")\n o[\"oldURL\"] = oldURL\n o[\"newURL\"]
= newURL\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n
return o\n}\n\n/**\n * Exposes the JavaScript
[PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin\n */\n\npublic
external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) :
Event {\n open val persisted: Boolean\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface PageTransitionEventInit : EventInit {\n var persisted: Boolean? /* = false */\n
}

```

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get() = definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PageTransitionEventInit(persisted:
Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
PageTransitionEventInit {\n    val o = js(\"({})\")\n    o[\"persisted\"] = persisted\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin\n */\npublic
external open class BeforeUnloadEvent : Event {\n    var returnValue: String\n\n    companion object {\n        val
NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n\n    public external abstract class ApplicationCache : EventTarget {\n        open
val status: Short\n        open var onchecking: ((Event) -> dynamic)?\n        open var onerror: ((Event) -> dynamic)?\n
open var onnoupdate: ((Event) -> dynamic)?\n        open var ondownloading: ((Event) -> dynamic)?\n        open var
onprogress: ((ProgressEvent) -> dynamic)?\n        open var onupdateready: ((Event) -> dynamic)?\n        open var
oncached: ((Event) -> dynamic)?\n        open var onobsolete: ((Event) -> dynamic)?\n        fun update()\n        fun abort()\n
fun swapCache()\n\n        companion object {\n            val UNCACHED: Short\n            val IDLE: Short\n            val
CHECKING: Short\n            val DOWNLOADING: Short\n            val UPDATEREADY: Short\n            val OBSOLETE:
Short\n        }\n    }\n\n    /**\n * Exposes the JavaScript
[NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\n */\npublic
external interface NavigatorOnLine {\n    val onLine: Boolean\n}\n\n/**\n * Exposes the JavaScript
[ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin\n */\npublic external open class
ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {\n    open val message: String\n
open val filename: String\n    open val lineno: Int\n    open val colno: Int\n    open val error: Any?\n\n    companion
object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n\n    public external interface ErrorEventInit : EventInit {\n        var message:
String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n        var filename: String? /*
= \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n        var lineno: Int? /* = 0 */\n
get() = definedExternally\n        set(value) = definedExternally\n        var colno: Int? /* = 0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n        var error: Any? /* = null */\n        get() =
definedExternally\n        set(value) = definedExternally\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline fun ErrorEventInit(message: String? = \"\",
filename: String? = \"\", lineno: Int? = 0, colno: Int? = 0, error: Any? = null, bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): ErrorEventInit {\n        val o = js(\"({})\")\n        o[\"message\"] =
message\n        o[\"filename\"] = filename\n        o[\"lineno\"] = lineno\n        o[\"colno\"] = colno\n        o[\"error\"] = error\n
o[\"bubbles\"] = bubbles\n        o[\"cancelable\"] = cancelable\n        o[\"composed\"] = composed\n        return
o\n    }\n\n    /**\n * Exposes the JavaScript
[PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\n */\n
public external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) :
Event {\n    open val promise: Promise<Any?>\n    open val reason: Any?\n\n    companion object {\n        val
NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n\n    public external interface PromiseRejectionEventInit : EventInit {\n        var
promise: Promise<Any?>?\n        var reason: Any?\n        get() = definedExternally\n        set(value) =
definedExternally\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline fun PromiseRejectionEventInit(promise:
Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): PromiseRejectionEventInit {\n        val o = js(\"({})\")\n        o[\"promise\"] = promise\n
o[\"reason\"] = reason\n        o[\"bubbles\"] = bubbles\n        o[\"cancelable\"] = cancelable\n        o[\"composed\"] =
composed\n        return o\n    }\n\n    /**\n * Exposes the JavaScript
[GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\n */\n
public external interface GlobalEventHandlers {\n    var onabort: ((Event) -> dynamic)?\n    get() =

```

```

definedExternally\n      set(value) = definedExternally\n      var onBlur: ((FocusEvent) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var onCancel: ((Event) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var oncanplay: ((Event) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var oncanplaythrough: ((Event) -> dynamic)?\n      get()
= definedExternally\n      set(value) = definedExternally\n      var onChange: ((Event) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var onclick: ((MouseEvent) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var onclose: ((Event) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var oncontextmenu: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var oncuechange: ((Event) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondblclick: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondrag: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondragend: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondragenter: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondragexit: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondragleave: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondragover: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondragstart: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondrop: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondurationchange: ((Event) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var onemptied: ((Event) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var onended: ((Event) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var onerror: ((dynamic, String, Int, Int, Any?) ->
dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var onFocus: ((FocusEvent) ->
dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var oninput: ((InputEvent) ->
dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var oninvalid: ((Event) ->
dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var onkeydown:
((KeyboardEvent) -> dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var
onkeypress: ((KeyboardEvent) -> dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n
var onkeyup: ((KeyboardEvent) -> dynamic)?\n      get() = definedExternally\n      set(value) =
definedExternally\n      var onload: ((Event) -> dynamic)?\n      get() = definedExternally\n      set(value) =
definedExternally\n      var onloadeddata: ((Event) -> dynamic)?\n      get() = definedExternally\n      set(value) =
definedExternally\n      var onloadedmetadata: ((Event) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onloadend: ((Event) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onloadstart: ((ProgressEvent) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onmousedown: ((MouseEvent) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var onmouseenter: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var onmouseleave: ((MouseEvent) ->
dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var onmousemove:
((MouseEvent) -> dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var
onmouseout: ((MouseEvent) -> dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n
var onmouseover: ((MouseEvent) -> dynamic)?\n      get() = definedExternally\n      set(value) =
definedExternally\n      var onmouseup: ((MouseEvent) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onwheel: ((WheelEvent) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onpause: ((Event) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onplay: ((Event) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onplaying: ((Event) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onprogress: ((ProgressEvent) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onratechange: ((Event) -> dynamic)?\n      get() = definedExternally\n

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set(value) = definedExternally\n    var onreset: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onresize: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onscroll: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onseeked: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onseeking: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onselect: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onshow: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onstalled: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onsubmit: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onsuspend: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var ontimeupdate: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var ontoggle: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onvolumechange: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onwaiting: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var ongotpointercapture: ((PointerEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onlostpointercapture: ((PointerEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n    var onpointerdown: ((PointerEvent) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onpointermove:
((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onpointerup: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onpointercancel: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onpointerover: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onpointerout: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var onpointerenter: ((PointerEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onpointerleave: ((PointerEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n}\n\n**\n * Exposes the JavaScript
[WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin\n
*/\npublic external interface WindowEventHandlers {\n    var onafterprint: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onbeforeprint: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onbeforeunload: ((BeforeUnloadEvent) ->
String)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onhashchange:
((HashChangeEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onlanguagechange: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onmessage: ((MessageEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onoffline: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var ononline: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onpagehide: ((PageTransitionEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onpageshow: ((PageTransitionEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onpopstate: ((PopStateEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onrejectionhandled: ((Event) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n    var onstorage: ((StorageEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n    var onunhandledrejection:
((PromiseRejectionEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onunload: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\npublic external interface DocumentAndElementEventHandlers {\n    var oncopy:
((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var oncut:
((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onpaste: ((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =

```

```

definedExternally\n}\n\n/**\n * Exposes the JavaScript
[WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope)
to Kotlin\n *^npublic external interface WindowOrWorkerGlobalScope {\n  val origin: String\n  val caches:
CacheStorage\n  fun btoa(data: String): String\n  fun atob(data: String): String\n  fun setTimeout(handler:
dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n  fun clearTimeout(handle: Int =
definedExternally)\n  fun setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?):
Int\n  fun clearInterval(handle: Int = definedExternally)\n  fun createImageBitmap(image: ImageBitmapSource,
options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n  fun createImageBitmap(image:
ImageBitmapSource, sx: Int, sy: Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally):
Promise<ImageBitmap>\n  fun fetch(input: dynamic, init: RequestInit = definedExternally):
Promise<Response>\n}\n\n/**\n * Exposes the JavaScript
[Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\n *^npublic external abstract class
Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies,
NavigatorPlugins, NavigatorConcurrentHardware {\n  open val clipboard: Clipboard\n  open val mediaDevices:
MediaDevices\n  open val maxTouchPoints: Int\n  open val serviceWorker: ServiceWorkerContainer\n  fun
requestMediaKeySystemAccess(keySystem: String, supportedConfigurations:
Array<MediaKeySystemConfiguration>): Promise<MediaKeySystemAccess>\n  fun getUserMedia(constraints:
MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)\n  fun
vibrate(pattern: dynamic): Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n *^npublic external interface
NavigatorID {\n  val appCodeName: String\n  val appName: String\n  val appVersion: String\n  val platform:
String\n  val product: String\n  val productSub: String\n  val userAgent: String\n  val vendor: String\n  val
vendorSub: String\n  val oscpu: String\n  fun taintEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin\n *^npublic
external interface NavigatorLanguage {\n  val language: String\n  val languages: Array<out String>\n}\n\npublic
external interface NavigatorContentUtils {\n  fun registerProtocolHandler(scheme: String, url: String, title:
String)\n  fun registerContentHandler(mimeType: String, url: String, title: String)\n  fun
isProtocolHandlerRegistered(scheme: String, url: String): String\n  fun isContentHandlerRegistered(mimeType:
String, url: String): String\n  fun unregisterProtocolHandler(scheme: String, url: String)\n  fun
unregisterContentHandler(mimeType: String, url: String)\n}\n\npublic external interface NavigatorCookies {\n  val
cookieEnabled: Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\n *^npublic
external interface NavigatorPlugins {\n  val plugins: PluginArray\n  val mimeTypes: MimeTypeError\n  fun
javaEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript
[PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n *^npublic external abstract
class PluginArray : ItemArrayLike<Plugin> {\n  fun refresh(reload: Boolean = definedExternally)\n  override fun
item(index: Int): Plugin?\n  fun namedItem(name: String):
Plugin?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(index: Int):
Plugin? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(name:
String): Plugin? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\n *^npublic external
abstract class MimeTypeArray : ItemArrayLike<MimeType> {\n  override fun item(index: Int): MimeType?\n  fun
namedItem(name: String): MimeType?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(index:
Int): MimeType? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(name:

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String): MimeTypes? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\n *\npublic external abstract class Plugin
: ItemArrayLike<MimeType> {\n  open val name: String\n  open val description: String\n  open val filename:
String\n  override fun item(index: Int): MimeType?\n  fun namedItem(name: String):
MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(index: Int):
MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(name: String):
MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\n *\npublic external abstract
class MimeType {\n  open val type: String\n  open val description: String\n  open val suffixes: String\n  open
val enabledPlugin: Plugin\n}\n\n/**\n * Exposes the JavaScript
[ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\n *\npublic external
abstract class ImageBitmap : CanvasImageSource, TexImageSource {\n  open val width: Int\n  open val height:
Int\n  fun close()\n}\n\npublic external interface ImageBitmapOptions {\n  var imageOrientation:
ImageOrientation? /* = ImageOrientation.NONE */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var colorSpaceConversion: ColorSpaceConversion? /* =
ColorSpaceConversion.DEFAULT */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
resizeWidth: Int?\n  get() = definedExternally\n  set(value) = definedExternally\n  var resizeHeight: Int?\n
  get() = definedExternally\n  set(value) = definedExternally\n  var resizeQuality: ResizeQuality? /* =
ResizeQuality.LOW */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
ImageBitmapOptions(imageOrientation: ImageOrientation? = ImageOrientation.NONE, premultiplyAlpha:
PremultiplyAlpha? = PremultiplyAlpha.DEFAULT, colorSpaceConversion: ColorSpaceConversion? =
ColorSpaceConversion.DEFAULT, resizeWidth: Int? = undefined, resizeHeight: Int? = undefined, resizeQuality:
ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {\n  val o = js(\"({})\")\n  o[\"imageOrientation\"]
= imageOrientation\n  o[\"premultiplyAlpha\"] = premultiplyAlpha\n  o[\"colorSpaceConversion\"] =
colorSpaceConversion\n  o[\"resizeWidth\"] = resizeWidth\n  o[\"resizeHeight\"] = resizeHeight\n
o[\"resizeQuality\"] = resizeQuality\n  return o\n}\n\n/**\n * Exposes the JavaScript
[MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin\n *\npublic external open
class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {\n  open val data:
Any?\n  open val origin: String\n  open val lastEventId: String\n  open val source:
UnionMessagePortOrWindowProxy?\n  open val ports: Array<out MessagePort>\n  fun initMessageEvent(type:
String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source:
UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)\n\n  companion object {\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n}\n\npublic external interface MessageEventInit : EventInit {\n  var data: Any? /* = null */\n  get()
= definedExternally\n  set(value) = definedExternally\n  var origin: String? /* = \"\" */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var lastEventId: String? /* = \"\" */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var source: UnionMessagePortOrWindowProxy? /* =
null */\n  get() = definedExternally\n  set(value) = definedExternally\n  var ports: Array<MessagePort>? /*
= arrayOf() */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MessageEventInit(data: Any? = null,
origin: String? = \"\", lastEventId: String? = \"\", source: UnionMessagePortOrWindowProxy? = null, ports:
Array<MessagePort>? = arrayOf(), bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =

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false): MessageEventInit {\n  val o = js("{}")\n  o["data"] = data\n  o["origin"] = origin\n  o["lastEventId"] = lastEventId\n  o["source"] = source\n  o["ports"] = ports\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript [EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin\n *\npublic external open class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {\n  open val url: String\n  open val withCredentials: Boolean\n  open val readyState: Short\n  var onopen: ((Event) -> dynamic)?\n  var onmessage: ((MessageEvent) -> dynamic)?\n  var onerror: ((Event) -> dynamic)?\n  fun close()\n\n  companion object {\n    val CONNECTING: Short\n    val OPEN: Short\n    val CLOSED: Short\n  }\n}\n\npublic external interface EventSourceInit {\n  var withCredentials: Boolean? /* = false *\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun EventSourceInit(withCredentials: Boolean? = false): EventSourceInit {\n  val o = js("{}")\n  o["withCredentials"] = withCredentials\n  return o\n}\n\n/**\n * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin\n *\npublic external open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {\n  open val url: String\n  open val readyState: Short\n  open val bufferedAmount: Number\n  var onopen: ((Event) -> dynamic)?\n  var onerror: ((Event) -> dynamic)?\n  var onclose: ((Event) -> dynamic)?\n  open val extensions: String\n  open val protocol: String\n  var onmessage: ((MessageEvent) -> dynamic)?\n  var binaryType: BinaryType\n  fun close(code: Short = definedExternally, reason: String = definedExternally)\n  fun send(data: String)\n  fun send(data: Blob)\n  fun send(data: ArrayBuffer)\n  fun send(data: ArrayBufferView)\n\n  companion object {\n    val CONNECTING: Short\n    val OPEN: Short\n    val CLOSING: Short\n    val CLOSED: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin\n *\npublic external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {\n  open val wasClean: Boolean\n  open val code: Short\n  open val reason: String\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface CloseEventInit : EventInit {\n  var wasClean: Boolean? /* = false *\n  get() = definedExternally\n  set(value) = definedExternally\n  var code: Short? /* = 0 *\n  get() = definedExternally\n  set(value) = definedExternally\n  var reason: String? /* = "" *\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun CloseEventInit(wasClean: Boolean? = false, code: Short? = 0, reason: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CloseEventInit {\n  val o = js("{}")\n  o["wasClean"] = wasClean\n  o["code"] = code\n  o["reason"] = reason\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\n *\npublic external open class MessageChannel {\n  open val port1: MessagePort\n  open val port2: MessagePort\n}\n\n/**\n * Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\n *\npublic external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n  open var onmessage: ((MessageEvent) -> dynamic)?\n  fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n  fun start()\n  fun close()\n}\n\n/**\n * Exposes the JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\n *\npublic external open class BroadcastChannel(name: String) : EventTarget {\n  open val name: String\n  var onmessage: ((MessageEvent) -> dynamic)?\n  fun postMessage(message: Any?)\n  fun close()\n}\n\n/**\n * Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin\n *\npublic external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {\n  open val self: WorkerGlobalScope\n  open val location: WorkerLocation\n  open val navigator: WorkerNavigator\n  open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n  open var

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onlanguagechange: ((Event) -> dynamic)?\n open var onoffline: ((Event) -> dynamic)?\n open var ononline:
 ((Event) -> dynamic)?\n open var onrejectionhandled: ((Event) -> dynamic)?\n open var onunhandledrejection:
 ((PromiseRejectionEvent) -> dynamic)?\n fun importScripts(vararg urls: String)\n}\n\n**\n * Exposes the
 JavaScript

[DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to
 Kotlin\n * \npublic external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {\n open var
 onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> =
 definedExternally)\n fun close()\n}\n\n**\n * Exposes the JavaScript

[SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to
 Kotlin\n * \npublic external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {\n open val name:
 String\n open val applicationCache: ApplicationCache\n open var onconnect: ((Event) -> dynamic)?\n fun
 close()\n}\n\n**\n * Exposes the JavaScript

[AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\n * \npublic external
 interface AbstractWorker {\n var onerror: ((Event) -> dynamic)?\n get() = definedExternally\n set(value)
 = definedExternally\n}\n\n**\n * Exposes the JavaScript

[Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin\n * \npublic external open class
 Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n var
 onmessage: ((MessageEvent) -> dynamic)?\n override var onerror: ((Event) -> dynamic)?\n fun terminate()\n
 fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\npublic external interface
 WorkerOptions {\n var type: WorkerType? /* = WorkerType.CLASSIC */\n get() = definedExternally\n
 set(value) = definedExternally\n var credentials: RequestCredentials? /* = RequestCredentials.OMIT */\n
 get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress("\nINVISIBLE_REFERENCE",
 "\nINVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun WorkerOptions(type: WorkerType? =
 WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {\n val o
 = js("\n({})")\n o["type"] = type\n o["credentials"] = credentials\n return o\n}\n\n**\n * Exposes the
 JavaScript [SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin\n * \npublic
 external open class SharedWorker(scriptURL: String, name: String = definedExternally, options: WorkerOptions =
 definedExternally) : EventTarget, AbstractWorker {\n open val port: MessagePort\n override var onerror:
 ((Event) -> dynamic)?\n}\n\n**\n * Exposes the JavaScript

[NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to
 Kotlin\n * \npublic external interface NavigatorConcurrentHardware {\n val hardwareConcurrency:
 Number\n}\n\n**\n * Exposes the JavaScript

[WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\n * \npublic
 external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine,
 NavigatorConcurrentHardware {\n open val serviceWorker: ServiceWorkerContainer\n}\n\n**\n * Exposes the
 JavaScript [WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin\n
 * \npublic external abstract class WorkerLocation {\n open val href: String\n open val origin: String\n open val
 protocol: String\n open val host: String\n open val hostname: String\n open val port: String\n open val
 pathname: String\n open val search: String\n open val hash: String\n}\n\n**\n * Exposes the JavaScript

[Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\n * \npublic external abstract class
 Storage {\n open val length: Int\n fun key(index: Int): String?\n fun removeItem(key: String)\n fun clear()\n
 fun getItem(key: String): String?\n fun setItem(key: String, value:
 String)\n}\n\n@Suppress("\nINVISIBLE_REFERENCE",
 "\nINVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.get(key: String):
 String? = asDynamic()[key]\n\n@Suppress("\nINVISIBLE_REFERENCE",
 "\nINVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.set(key: String, value:
 String) { asDynamic()[key] = value }\n\n**\n * Exposes the JavaScript

[WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin\n

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*/\npublic external interface WindowSessionStorage {\n    val sessionStorage: Storage\n}\n\n/**\n * Exposes the JavaScript [WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin\n */\npublic external interface WindowLocalStorage {\n    val localStorage: Storage\n}\n\n/**\n * Exposes the JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\n */\npublic external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {\n    open val key: String?\n    open val oldValue: String?\n    open val newValue: String?\n    open val url: String\n    open val storageArea: Storage?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface StorageEventInit : EventInit {\n    var key: String? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var oldValue: String? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var newValue: String? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var url: String? /* = "" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var storageArea: Storage? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun StorageEventInit(key: String? = null, oldValue: String? = null, newValue: String? = null, url: String? = "", storageArea: Storage? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {\n    val o = js("{}")\n    o["key"] = key\n    o["oldValue"] = oldValue\n    o["newValue"] = newValue\n    o["url"] = url\n    o["storageArea"] = storageArea\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\npublic external abstract class HTMLAppletElement : HTMLElement {\n    open var align: String\n    open var alt: String\n    open var archive: String\n    open var code: String\n    open var codeBase: String\n    open var height: String\n    open var hspace: Int\n    open var name: String\n    open var _object: String\n    open var vspace: Int\n    open var width: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin\n */\npublic external abstract class HTMLMarqueeElement : HTMLElement {\n    open var behavior: String\n    open var bgColor: String\n    open var direction: String\n    open var height: String\n    open var hspace: Int\n    open var loop: Int\n    open var scrollAmount: Int\n    open var scrollDelay: Int\n    open var trueSpeed: Boolean\n    open var vspace: Int\n    open var width: String\n    open var onbounce: ((Event) -> dynamic)?\n    open var onfinish: ((Event) -> dynamic)?\n    open var onstart: ((Event) -> dynamic)?\n    fun start()\n    fun stop()\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin\n */

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*^/npublic external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {
    open var cols: String
    open var rows: String
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

npublic external abstract class HTMLFrameElement : HTMLElement {
    open var name: String
    open var scrolling: String
    open var src: String
    open var frameBorder: String
    open var longDesc: String
    open var noResize: Boolean
    open val contentDocument: Document?
    open val contentWindow: Window?
    open var marginHeight: String
    open var marginWidth: String
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

npublic external abstract class HTMLDirectoryElement : HTMLElement {
    open var compact: Boolean
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

npublic external abstract class HTMLFontElement : HTMLElement {
    open var color: String
    open var face: String
    open var size: String
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

npublic external interface External {
    fun AddSearchProvider()
    fun IsSearchProviderInstalled()
}

npublic external interface EventInit {
    var bubbles: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
    var

```

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cancelable: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n  var
composed: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventInit(bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): EventInit {\n  val o = js(\"({})\")\n  o[\"bubbles\"] =
bubbles\n  o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\n/**\n * Exposes the
JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\n */\npublic
external open class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally) : Event {\n
open val detail: Any?\n  fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean, detail:
Any?)\n}\n\n companion object {\n  val NONE: Short\n  val CAPTURING_PHASE: Short\n  val
AT_TARGET: Short\n  val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface CustomEventInit :
EventInit {\n  var detail: Any? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CustomEventInit(detail: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CustomEventInit {\n  val o
= js(\"({})\")\n  o[\"detail\"] = detail\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n  return o\n}\n\npublic external interface EventListenerOptions {\n  var capture:
Boolean? /* = false */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventListenerOptions(capture:
Boolean? = false): EventListenerOptions {\n  val o = js(\"({})\")\n  o[\"capture\"] = capture\n  return
o\n}\n\npublic external interface AddEventListenerOptions : EventListenerOptions {\n  var passive: Boolean? /* =
false */\n  get() = definedExternally\n  set(value) = definedExternally\n  var once: Boolean? /* = false */\n
get() = definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun AddEventListenerOptions(passive:
Boolean? = false, once: Boolean? = false, capture: Boolean? = false): AddEventListenerOptions {\n  val o =
js(\"({})\")\n  o[\"passive\"] = passive\n  o[\"once\"] = once\n  o[\"capture\"] = capture\n  return o\n}\n\npublic
external interface NonElementParentNode {\n  fun getElementById(elementId: String): Element?\n}\n\n/**\n *
Exposes the JavaScript
[DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin\n */\npublic
external interface DocumentOrShadowRoot {\n  val fullscreenElement: Element?\n  get() =
definedExternally\n}\n\n/**\n * Exposes the JavaScript
[ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin\n */\npublic external interface
ParentNode {\n  val children: HTMLCollection\n  val firstElementChild: Element?\n  get() =
definedExternally\n  val lastElementChild: Element?\n  get() = definedExternally\n  val childElementCount:
Int\n  fun prepend(vararg nodes: dynamic)\n  fun append(vararg nodes: dynamic)\n  fun querySelector(selectors:
String): Element?\n  fun querySelectorAll(selectors: String): NodeList\n}\n\n/**\n * Exposes the JavaScript
[NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to
Kotlin\n */\npublic external interface NonDocumentTypeChildNode {\n  val previousElementSibling: Element?\n
get() = definedExternally\n  val nextElementSibling: Element?\n  get() = definedExternally\n}\n\n/**\n *
Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\n */\npublic
external interface ChildNode {\n  fun before(vararg nodes: dynamic)\n  fun after(vararg nodes:
dynamic)\n  fun replaceWith(vararg nodes: dynamic)\n  fun remove()\n}\n\n/**\n * Exposes the JavaScript
[Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\n */\npublic external interface Slotable
{\n  val assignedSlot: HTMLSlotElement?\n  get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript
[NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin\n */\npublic external abstract class
NodeList : ItemArrayLike<Node> {\n  override fun item(index: Int):
Node?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

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\ "INVISIBLE_MEMBER" ) \n @kotlin.internal.InlineOnly \n public inline operator fun NodeList.get(index: Int):
Node? = asDynamic()[index] \n \n /** \n * Exposes the JavaScript
[HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin \n * \n public
external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection { \n
override fun item(index: Int): Element? \n fun namedItem(name: String):
Element? \n } \n \n @Suppress("INVISIBLE_REFERENCE",
\ "INVISIBLE_MEMBER" ) \n @kotlin.internal.InlineOnly \n public inline operator fun HTMLCollection.get(index:
Int): Element? = asDynamic()[index] \n \n @Suppress("INVISIBLE_REFERENCE",
\ "INVISIBLE_MEMBER" ) \n @kotlin.internal.InlineOnly \n public inline operator fun HTMLCollection.get(name:
String): Element? = asDynamic()[name] \n \n /** \n * Exposes the JavaScript
[MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin \n * \n public
external open class MutationObserver(callback: (Array<MutationRecord>, MutationObserver) -> Unit) { \n fun
observe(target: Node, options: MutationObserverInit = definedExternally) \n fun disconnect() \n fun
takeRecords(): Array<MutationRecord> \n } \n \n /** \n * Exposes the JavaScript
[MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin \n
* \n public external interface MutationObserverInit { \n var childList: Boolean? /* = false */ \n get() =
definedExternally \n set(value) = definedExternally \n var attributes: Boolean? \n get() =
definedExternally \n set(value) = definedExternally \n var characterData: Boolean? \n get() =
definedExternally \n set(value) = definedExternally \n var subtree: Boolean? /* = false */ \n get() =
definedExternally \n set(value) = definedExternally \n var attributeOldValue: Boolean? \n get() =
definedExternally \n set(value) = definedExternally \n var characterDataOldValue: Boolean? \n get() =
definedExternally \n set(value) = definedExternally \n var attributeFilter: Array<String>? \n get() =
definedExternally \n set(value) = definedExternally \n } \n \n @Suppress("INVISIBLE_REFERENCE",
\ "INVISIBLE_MEMBER" ) \n @kotlin.internal.InlineOnly \n public inline fun MutationObserverInit(childList:
Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? = undefined, subtree: Boolean? = false,
attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? = undefined, attributeFilter:
Array<String>? = undefined): MutationObserverInit { \n val o = js("{ }") \n o["childList"] = childList \n
o["attributes"] = attributes \n o["characterData"] = characterData \n o["subtree"] = subtree \n
o["attributeOldValue"] = attributeOldValue \n o["characterDataOldValue"] = characterDataOldValue \n
o["attributeFilter"] = attributeFilter \n return o \n } \n \n /** \n * Exposes the JavaScript
[MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin \n * \n public external
abstract class MutationRecord { \n open val type: String \n open val target: Node \n open val addedNodes:
NodeList \n open val removedNodes: NodeList \n open val previousSibling: Node? \n open val nextSibling:
Node? \n open val attributeName: String? \n open val attributeNamespace: String? \n open val oldValue:
String? \n } \n \n /** \n * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to
Kotlin \n * \n public external abstract class Node : EventTarget { \n open val nodeType: Short \n open val
nodeName: String \n open val baseURI: String \n open val isConnected: Boolean \n open val ownerDocument:
Document? \n open val parentNode: Node? \n open val parentElement: Element? \n open val childNodes:
NodeList \n open val firstChild: Node? \n open val lastChild: Node? \n open val previousSibling: Node? \n
open val nextSibling: Node? \n open var nodeValue: String? \n open var textContent: String? \n fun
getRootNode(options: GetRootNodeOptions = definedExternally): Node \n fun hasChildNodes(): Boolean \n fun
normalize() \n fun cloneNode(deep: Boolean = definedExternally): Node \n fun isEqualNode(otherNode: Node?):
Boolean \n fun isSameNode(otherNode: Node?): Boolean \n fun compareDocumentPosition(other: Node): Short \n
fun contains(other: Node?): Boolean \n fun lookupPrefix(namespace: String?): String? \n fun
lookupNamespaceURI(prefix: String?): String? \n fun isDefaultNamespace(namespace: String?): Boolean \n fun
insertBefore(node: Node, child: Node?): Node \n fun appendChild(node: Node): Node \n fun replaceChild(node:
Node, child: Node): Node \n fun removeChild(child: Node): Node \n \n companion object { \n val
ELEMENT_NODE: Short \n val ATTRIBUTE_NODE: Short \n val TEXT_NODE: Short \n val

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onmouseleave: ((MouseEvent) -> dynamic)?\n  override var onmousemove: ((MouseEvent) -> dynamic)?\n
override var onmouseout: ((MouseEvent) -> dynamic)?\n  override var onmouseover: ((MouseEvent) ->
dynamic)?\n  override var onmouseup: ((MouseEvent) -> dynamic)?\n  override var onwheel: ((WheelEvent) ->
dynamic)?\n  override var onpause: ((Event) -> dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n
override var onplaying: ((Event) -> dynamic)?\n  override var onprogress: ((ProgressEvent) -> dynamic)?\n
override var onratechange: ((Event) -> dynamic)?\n  override var onreset: ((Event) -> dynamic)?\n  override var
onresize: ((Event) -> dynamic)?\n  override var onscroll: ((Event) -> dynamic)?\n  override var onseeked:
((Event) -> dynamic)?\n  override var onseeking: ((Event) -> dynamic)?\n  override var onselect: ((Event) ->
dynamic)?\n  override var onshow: ((Event) -> dynamic)?\n  override var onstalled: ((Event) -> dynamic)?\n
override var onsubmit: ((Event) -> dynamic)?\n  override var onsuspend: ((Event) -> dynamic)?\n  override var
ontimeupdate: ((Event) -> dynamic)?\n  override var ontoggle: ((Event) -> dynamic)?\n  override var
onvolumechange: ((Event) -> dynamic)?\n  override var onwaiting: ((Event) -> dynamic)?\n  override var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n  override var onlostpointercapture: ((PointerEvent) ->
dynamic)?\n  override var onpointerdown: ((PointerEvent) -> dynamic)?\n  override var onpointermove:
((PointerEvent) -> dynamic)?\n  override var onpointerup: ((PointerEvent) -> dynamic)?\n  override var
onpointercancel: ((PointerEvent) -> dynamic)?\n  override var onpointerover: ((PointerEvent) -> dynamic)?\n
override var onpointerout: ((PointerEvent) -> dynamic)?\n  override var onpointerenter: ((PointerEvent) ->
dynamic)?\n  override var onpointerleave: ((PointerEvent) -> dynamic)?\n  override var oncopy:
((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) -> dynamic)?\n  override var onpaste:
((ClipboardEvent) -> dynamic)?\n  override val fullscreenElement: Element?\n  override val children:
HTMLCollection\n  override val firstElementChild: Element?\n  override val lastElementChild: Element?\n
override val childElementCount: Int\n  fun getElementsByTagName(qualifiedName: String): HTMLCollection\n
fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n  fun
getElementsByTagName(className: String): HTMLCollection\n  fun createElement(localName: String,
options: ElementCreationOptions = definedExternally): Element\n  fun createElementNS(namespace: String?,
qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\n  fun
createDocumentFragment(): DocumentFragment\n  fun createTextNode(data: String): Text\n  fun
createCDATASection(data: String): CDATASection\n  fun createComment(data: String): Comment\n  fun
createProcessingInstruction(target: String, data: String): ProcessingInstruction\n  fun importNode(node: Node,
deep: Boolean = definedExternally): Node\n  fun adoptNode(node: Node): Node\n  fun
createAttribute(localName: String): Attr\n  fun createAttributeNS(namespace: String?, qualifiedName: String):
Attr\n  fun createEvent(`interface`: String): Event\n  fun createRange(): Range\n  fun createNodeIterator(root:
Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\n  fun
createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? =
definedExternally): NodeIterator\n  fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter:
NodeFilter? = definedExternally): TreeWalker\n  fun createTreeWalker(root: Node, whatToShow: Int =
definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\n  fun
getElementsByTagName(elementName: String): NodeList\n  fun open(type: String = definedExternally, replace:
String = definedExternally): Document\n  fun open(url: String, name: String, features: String): Window\n  fun
close()\n  fun write(vararg text: String)\n  fun writeln(vararg text: String)\n  fun hasFocus(): Boolean\n  fun
execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally):
Boolean\n  fun queryCommandEnabled(commandId: String): Boolean\n  fun
queryCommandIndeterm(commandId: String): Boolean\n  fun queryCommandState(commandId: String):
Boolean\n  fun queryCommandSupported(commandId: String): Boolean\n  fun
queryCommandValue(commandId: String): String\n  fun clear()\n  fun captureEvents()\n  fun releaseEvents()\n
fun elementFromPoint(x: Double, y: Double): Element?\n  fun elementsFromPoint(x: Double, y: Double):
Array<Element>\n  fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?\n  fun createTouch(view:
Window, target: EventTarget, identifier: Int, pageX: Int, pageY: Int, screenX: Int, screenY: Int): Touch\n  fun

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createTouchList(vararg touches: Touch): TouchList\n fun exitFullscreen(): Promise<Unit>\n override fun
getElementById(elementId: String): Element?\n override fun prepend(vararg nodes: dynamic)\n override fun
append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun
querySelectorAll(selectors: String): NodeList\n override fun getBoxQuads(options: BoxQuadOptions /* =
definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun
convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Document.get(name: String):
dynamic = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin\n */\npublic external
open class XMLDocument : Document {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
ElementCreationOptions {\n var `is`: String?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ElementCreationOptions(`is`: String?
= undefined): ElementCreationOptions {\n val o = js(\"({})\")\n o[\"is\"] = `is`\n return o\n}\n\n/**\n *
Exposes the JavaScript
[DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin\n
*/\npublic external abstract class DOMImplementation {\n fun createDocumentType(qualifiedName: String,
publicId: String, systemId: String): DocumentType\n fun createDocument(namespace: String?, qualifiedName:
String, doctype: DocumentType? = definedExternally): XMLDocument\n fun createHTMLDocument(title: String
= definedExternally): Document\n fun hasFeature(): Boolean\n}\n\n/**\n * Exposes the JavaScript
[DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to Kotlin\n */\npublic external
abstract class DocumentType : Node, ChildNode {\n open val name: String\n open val publicId: String\n open
val systemId: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val

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DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin \n * \n public
external open class DocumentFragment : Node, NonElementParentNode, ParentNode { \n    override val children:
HTMLCollection \n    override val firstElementChild: Element? \n    override val lastElementChild: Element? \n
    override val childElementCount: Int \n    override fun getElementById(elementId: String): Element? \n    override fun
prepend(vararg nodes: dynamic) \n    override fun append(vararg nodes: dynamic) \n    override fun
querySelector(selectors: String): Element? \n    override fun querySelectorAll(selectors: String): NodeList \n \n
companion object { \n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin \n * \n public external open
class ShadowRoot : DocumentFragment, DocumentOrShadowRoot { \n    open val mode: ShadowRootMode \n
    open val host: Element \n    override val fullscreenElement: Element? \n \n    companion object { \n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin \n * \n public external abstract class
Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils,
UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent,
UnionElementOrProcessingInstruction { \n    open val namespaceURI: String? \n    open val prefix: String? \n    open
val localName: String \n    open val tagName: String \n    open var id: String \n    open var className: String \n    open
val classList: DOMTokenList \n    open var slot: String \n    open val attributes: NamedNodeMap \n    open val
shadowRoot: ShadowRoot? \n    open var scrollTop: Double \n    open var scrollLeft: Double \n    open val
scrollWidth: Int \n    open val scrollHeight: Int \n    open val clientTop: Int \n    open val clientLeft: Int \n    open val
clientWidth: Int \n    open val clientHeight: Int \n    open var innerHTML: String \n    open var outerHTML: String \n
    fun hasAttributes(): Boolean \n    fun getAttributeNames(): Array<String> \n    fun getAttribute(qualifiedName:
String): String? \n    fun getAttributeNS(namespace: String?, localName: String): String? \n    fun
setAttribute(qualifiedName: String, value: String) \n    fun setAttributeNS(namespace: String?, qualifiedName:
String, value: String) \n    fun removeAttribute(qualifiedName: String) \n    fun removeAttributeNS(namespace:
String?, localName: String) \n    fun hasAttribute(qualifiedName: String): Boolean \n    fun
hasAttributeNS(namespace: String?, localName: String): Boolean \n    fun getAttributeNode(qualifiedName: String):

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Attr? fun getAttributeNodeNS(namespace: String?, localName: String): Attr? fun setAttributeNode(attr:
Attr): Attr? fun setAttributeNodeNS(attr: Attr): Attr? fun removeAttributeNode(attr: Attr): Attr? fun
attachShadow(init: ShadowRootInit): ShadowRoot? fun closest(selectors: String): Element? fun
matches(selectors: String): Boolean? fun webkitMatchesSelector(selectors: String): Boolean? fun
getElementsByTagName(qualifiedName: String): HTMLCollection? fun
getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection? fun
getElementsByClassName(classNames: String): HTMLCollection? fun insertAdjacentElement(where: String,
element: Element): Element? fun insertAdjacentText(where: String, data: String) fun getClientRects():
Array<DOMRect> fun getBoundingClientRect(): DOMRect? fun scrollIntoView() fun
scrollIntoView(arg: dynamic) fun scroll(options: ScrollToOptions = definedExternally) fun scroll(x: Double,
y: Double) fun scrollTo(options: ScrollToOptions = definedExternally) fun scrollTo(x: Double, y: Double) fun
scrollBy(options: ScrollToOptions = definedExternally) fun scrollBy(x: Double, y: Double) fun
insertAdjacentHTML(position: String, text: String) fun setPointerCapture(pointerId: Int) fun
releasePointerCapture(pointerId: Int) fun hasPointerCapture(pointerId: Int): Boolean? fun requestFullscreen():
Promise<Unit> fun companion object { fun val ELEMENT_NODE: Short? fun val ATTRIBUTE_NODE:
Short? fun val TEXT_NODE: Short? fun val CDATA_SECTION_NODE: Short? fun val
ENTITY_REFERENCE_NODE: Short? fun val ENTITY_NODE: Short? fun val
PROCESSING_INSTRUCTION_NODE: Short? fun val COMMENT_NODE: Short? fun val
DOCUMENT_NODE: Short? fun val DOCUMENT_TYPE_NODE: Short? fun val
DOCUMENT_FRAGMENT_NODE: Short? fun val NOTATION_NODE: Short? fun val
DOCUMENT_POSITION_DISCONNECTED: Short? fun val DOCUMENT_POSITION_PRECEDING: Short? fun
val DOCUMENT_POSITION_FOLLOWING: Short? fun val DOCUMENT_POSITION_CONTAINS: Short? fun
val DOCUMENT_POSITION_CONTAINED_BY: Short? fun val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short? } fun public external interface
ShadowRootInit { fun var mode: ShadowRootMode? } fun @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") fun @kotlin.internal.InlineOnly fun public inline fun ShadowRootInit(mode:
ShadowRootMode?): ShadowRootInit { fun val o = js("{}") fun o["mode"] = mode fun return o } fun /**
Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to
Kotlin fun public external abstract class NamedNodeMap : ItemArrayLike<Attr> { fun
getNamedItemNS(namespace: String?, localName: String): Attr? fun setNamedItem(attr: Attr): Attr? fun
setNamedItemNS(attr: Attr): Attr? fun removeNamedItem(qualifiedName: String): Attr? fun
removeNamedItemNS(namespace: String?, localName: String): Attr? fun override fun item(index: Int): Attr? fun
getNamedItem(qualifiedName: String): Attr? } fun @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") fun @kotlin.internal.InlineOnly fun public inline operator fun NamedNodeMap.get(index:
Int): Attr? = asDynamic()[index] fun @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") fun @kotlin.internal.InlineOnly fun public inline operator fun
NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName] fun /**
Exposes the
JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin fun public external abstract class
Attr : Node { fun open val namespaceURI: String? fun open val prefix: String? fun open val localName: String? fun
open val name: String? fun open var value: String? fun open val ownerElement: Element? fun open val specified:
Boolean? fun companion object { fun val ELEMENT_NODE: Short? fun val ATTRIBUTE_NODE: Short? fun
val TEXT_NODE: Short? fun val CDATA_SECTION_NODE: Short? fun val ENTITY_REFERENCE_NODE:
Short? fun val ENTITY_NODE: Short? fun val PROCESSING_INSTRUCTION_NODE: Short? fun val
COMMENT_NODE: Short? fun val DOCUMENT_NODE: Short? fun val DOCUMENT_TYPE_NODE: Short? fun
val DOCUMENT_FRAGMENT_NODE: Short? fun val NOTATION_NODE: Short? fun val
DOCUMENT_POSITION_DISCONNECTED: Short? fun val DOCUMENT_POSITION_PRECEDING: Short? fun
val DOCUMENT_POSITION_FOLLOWING: Short? fun val DOCUMENT_POSITION_CONTAINS: Short? fun
val DOCUMENT_POSITION_CONTAINED_BY: Short? fun val

```



```

UnionElementOrProcessingInstruction {
    open val target: String
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

Exposes the JavaScript [Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin
public external open class Comment(data: String = definedExternally) : CharacterData {
    override val previousElementSibling: Element?
    override val nextElementSibling: Element?
    override fun before(vararg nodes: dynamic)
    override fun after(vararg nodes: dynamic)
    override fun replaceWith(vararg nodes: dynamic)
    override fun remove()
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

Exposes the JavaScript [Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin
public external open class Range {
    open val startContainer: Node
    open val startOffset: Int
    open val endContainer: Node
    open val endOffset: Int
    open val collapsed: Boolean
    open val commonAncestorContainer: Node
    fun setStart(node: Node, offset: Int)
    fun setEnd(node: Node, offset: Int)
    fun setStartBefore(node: Node)
    fun setStartAfter(node: Node)
    fun setEndBefore(node: Node)
    fun setEndAfter(node: Node)
    fun collapse(toStart: Boolean = definedExternally)
    fun selectNode(node: Node)
    fun selectNodeContents(node: Node)
    fun compareBoundaryPoints(how: Short, sourceRange: Range): Short
    fun deleteContents()
    fun extractContents(): DocumentFragment
    fun cloneContents(): DocumentFragment
    fun insertNode(node: Node)
    fun surroundContents(newParent: Node)
    fun cloneRange(): Range
    fun detach()
    fun isPointInRange(node: Node, offset: Int): Boolean
    fun comparePoint(node: Node, offset: Int): Short
    fun intersectsNode(node: Node): Boolean
    fun getClientRects(): Array<DOMRect>
    fun getBoundingClientRect(): DOMRect
    fun createContextualFragment(fragment: String): DocumentFragment
    companion object {
        val START_TO_START: Short
        val START_TO_END: Short
        val END_TO_END: Short
        val END_TO_START: Short
    }
}

Exposes the JavaScript [NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin
public external abstract class NodeIterator {
    open val root: Node
    open val referenceNode: Node
    open val pointerBeforeReferenceNode: Boolean
    open val whatToShow: Int
    open val filter: NodeFilter?
    fun nextNode(): Node?
    fun previousNode(): Node?
    fun detach()
}

Exposes the JavaScript [TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin
public external abstract class TreeWalker {
    open val root: Node
    open val whatToShow: Int
    open val filter: NodeFilter?
    open var currentNode: Node
    fun parentNode(): Node?
    fun firstChild(): Node?
    fun lastChild(): Node?
    fun previousSibling(): Node?
    fun nextSibling(): Node?
    fun previousNode(): Node?
    fun nextNode(): Node?
}

Exposes the JavaScript [NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin
public external interface NodeFilter {
    @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
}

```

```

fun acceptNode(node: Node): Short companion object {
    val FILTER_ACCEPT: Short
    val FILTER_REJECT: Short
    val FILTER_SKIP: Short
    val SHOW_ALL: Int
    val SHOW_ELEMENT: Int
    val SHOW_ATTRIBUTE: Int
    val SHOW_TEXT: Int
    val SHOW_CDATA_SECTION: Int
    val SHOW_ENTITY_REFERENCE: Int
    val SHOW_ENTITY: Int
    val SHOW_PROCESSING_INSTRUCTION: Int
    val SHOW_COMMENT: Int
    val SHOW_DOCUMENT: Int
    val SHOW_DOCUMENT_TYPE: Int
    val SHOW_DOCUMENT_FRAGMENT: Int
    val SHOW_NOTATION: Int
}

Exposes the JavaScript [DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin
public external abstract class DOMTokenList : ItemArrayLike<String> {
    open var value: String
    fun contains(token: String): Boolean
    fun add(vararg tokens: String)
    fun remove(vararg tokens: String)
    fun toggle(token: String, force: Boolean = definedExternally): Boolean
    fun replace(token: String, newToken: String)
    fun supports(token: String): Boolean
    override fun item(index: Int): String?
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline operator fun DOMTokenList.get(index: Int): String? = asDynamic()[index]

Exposes the JavaScript [DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin
public external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {
    open val x: Double
    open val y: Double
    open val z: Double
    open val w: Double
    fun matrixTransform(matrix: DOMMatrixReadOnly): DOMPoint
}

Exposes the JavaScript [DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin
public external open class DOMPoint : DOMPointReadOnly {
    constructor(point: DOMPointInit)
    constructor(x: Double = definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally)
    override var x: Double
    override var y: Double
    override var z: Double
    override var w: Double
}

Exposes the JavaScript [DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin
public external interface DOMPointInit {
    var x: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
    var y: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
    var z: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
    var w: Double? /* = 1.0 */
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun DOMPointInit(x: Double? = 0.0, y: Double? = 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {
    val o = js("{}")
    o["x"] = x
    o["y"] = y
    o["z"] = z
    o["w"] = w
    return o
}

Exposes the JavaScript [DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin
public external open class DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally, height: Double = definedExternally) : DOMRectReadOnly {
    override var x: Double
    override var y: Double
    override var width: Double
    override var height: Double
}

Exposes the JavaScript [DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin
public external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {
    open val x: Double
    open val y: Double
    open val width: Double
    open val height: Double
    open val top: Double
    open val right: Double
    open val bottom: Double
    open val left: Double
}

public external interface DOMRectInit {
    var x: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
    var y: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
    var width: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
    var height: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun DOMRectInit(x: Double? = 0.0, y: Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {
    val o = js("{}")
    o["x"] =

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x\n  o["y"] = y\n  o["width"] = width\n  o["height"] = height\n  return o\n}\n\npublic external interface
DOMRectList : ItemArrayLike<DOMRect> {\n  override fun item(index: Int):
DOMRect?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMRectList.get(index: Int):
DOMRect? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin\n */\npublic external open class
DOMQuad {\n  constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3:
DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)\n  constructor(rect: DOMRectInit)\n
open val p1: DOMPoint\n  open val p2: DOMPoint\n  open val p3: DOMPoint\n  open val p4: DOMPoint\n
open val bounds: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript
[DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin\n
*/\npublic external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {\n  open val a: Double\n
open val b: Double\n  open val c: Double\n  open val d: Double\n  open val e: Double\n  open val f: Double\n
open val m11: Double\n  open val m12: Double\n  open val m13: Double\n  open val m14: Double\n  open val
m21: Double\n  open val m22: Double\n  open val m23: Double\n  open val m24: Double\n  open val m31:
Double\n  open val m32: Double\n  open val m33: Double\n  open val m34: Double\n  open val m41: Double\n
open val m42: Double\n  open val m43: Double\n  open val m44: Double\n  open val is2D: Boolean\n  open
val isIdentity: Boolean\n  fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n
fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n
fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ:
Double = definedExternally): DOMMatrix\n  fun scaleNonUniform(scaleX: Double, scaleY: Double =
definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double =
definedExternally, originZ: Double = definedExternally): DOMMatrix\n  fun rotate(angle: Double, originX:
Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n  fun rotateFromVector(x:
Double, y: Double): DOMMatrix\n  fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double):
DOMMatrix\n  fun skewX(sx: Double): DOMMatrix\n  fun skewY(sy: Double): DOMMatrix\n  fun
multiply(other: DOMMatrix): DOMMatrix\n  fun flipX(): DOMMatrix\n  fun flipY(): DOMMatrix\n  fun
inverse(): DOMMatrix\n  fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint\n  fun
toFloat32Array(): Float32Array\n  fun toFloat64Array(): Float64Array\n}\n\n/**\n * Exposes the JavaScript
[DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin\n */\npublic external open
class DOMMatrix() : DOMMatrixReadOnly {\n  constructor(transformList: String)\n  constructor(other:
DOMMatrixReadOnly)\n  constructor(array32: Float32Array)\n  constructor(array64: Float64Array)\n
constructor(numberSequence: Array<Double>)\n  override var a: Double\n  override var b: Double\n  override
var c: Double\n  override var d: Double\n  override var e: Double\n  override var f: Double\n  override var m11:
Double\n  override var m12: Double\n  override var m13: Double\n  override var m14: Double\n  override var
m21: Double\n  override var m22: Double\n  override var m23: Double\n  override var m24: Double\n  override
var m31: Double\n  override var m32: Double\n  override var m33: Double\n  override var m34: Double\n
override var m41: Double\n  override var m42: Double\n  override var m43: Double\n  override var m44:
Double\n  fun multiplySelf(other: DOMMatrix): DOMMatrix\n  fun preMultiplySelf(other: DOMMatrix):
DOMMatrix\n  fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n  fun
scaleSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n
fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally,
originZ: Double = definedExternally): DOMMatrix\n  fun scaleNonUniformSelf(scaleX: Double, scaleY: Double =
definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double =
definedExternally, originZ: Double = definedExternally): DOMMatrix\n  fun rotateSelf(angle: Double, originX:
Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n  fun rotateFromVectorSelf(x:
Double, y: Double): DOMMatrix\n  fun rotateAxisAngleSelf(x: Double, y: Double, z: Double, angle: Double):
DOMMatrix\n  fun skewXSelf(sx: Double): DOMMatrix\n  fun skewYSelf(sy: Double): DOMMatrix\n  fun

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invertSelf(): DOMMatrix\n fun setMatrixValue(transformList: String): DOMMatrix\n}\n\npublic external
interface ScrollOptions {\n var behavior: ScrollBehavior? /* = ScrollBehavior.AUTO */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ScrollOptions(behavior:
ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {\n val o = js(\"({})\")\n o[\"behavior\"] = behavior\n
return o}\n}\n\n/**\n * Exposes the JavaScript
[ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin\n */\npublic external
interface ScrollToOptions : ScrollOptions {\n var left: Double?\n get() = definedExternally\n set(value) =
definedExternally\n var top: Double?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ScrollToOptions(left: Double? =
undefined, top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {\n
val o = js(\"({})\")\n o[\"left\"] = left\n o[\"top\"] = top\n o[\"behavior\"] = behavior\n return o}\n}\n\n/**\n * Exposes the JavaScript [MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to
Kotlin\n */\npublic external abstract class MediaQueryList : EventTarget {\n open val media: String\n open val
matches: Boolean\n open var onchange: ((Event) -> dynamic)?\n fun addListener(listener: EventListener?)\n
fun addListener(listener: ((Event) -> Unit)?)\n fun removeListener(listener: EventListener?)\n fun
removeListener(listener: ((Event) -> Unit)?)\n}\n\n/**\n * Exposes the JavaScript
[MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin\n */\npublic external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit =
definedExternally) : Event {\n open val media: String\n open val matches: Boolean\n\n companion object {\n
val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MediaQueryListEventInit : EventInit {\n var
media: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var matches:
Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaQueryListEventInit(media:
String? = \"\", matches: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): MediaQueryListEventInit {\n val o = js(\"({})\")\n o[\"media\"] = media\n o[\"matches\"] =
matches\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return
o}\n}\n\n/**\n * Exposes the JavaScript [Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin\n */\npublic external abstract class Screen {\n open val availWidth: Int\n open val availHeight: Int\n open val
width: Int\n open val height: Int\n open val colorDepth: Int\n open val pixelDepth: Int\n}\n\n/**\n * Exposes
the JavaScript [CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin\n */\npublic external abstract class CaretPosition {\n open val offsetNode: Node\n open val offset: Int\n fun
getClientRect(): DOMRect?\n}\n\npublic external interface ScrollIntoViewOptions : ScrollOptions {\n var block:
ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n get() = definedExternally\n set(value) =
definedExternally\n var inline: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ScrollIntoViewOptions(block:
ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, inline: ScrollLogicalPosition? =
ScrollLogicalPosition.CENTER, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollIntoViewOptions {\n
val o = js(\"({})\")\n o[\"block\"] = block\n o[\"inline\"] = inline\n o[\"behavior\"] = behavior\n return
o}\n}\n\npublic external interface BoxQuadOptions {\n var box: CSSBoxType? /* = CSSBoxType.BORDER */\n
get() = definedExternally\n set(value) = definedExternally\n var relativeTo: dynamic\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun BoxQuadOptions(box: CSSBoxType?
= CSSBoxType.BORDER, relativeTo: dynamic = undefined): BoxQuadOptions {\n val o = js(\"({})\")\n

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o["box"] = box\n  o["relativeTo"] = relativeTo\n  return o\n}\n\npublic external interface
ConvertCoordinateOptions {\n  var fromBox: CSSBoxType? /* = CSSBoxType.BORDER */\n    get() =
definedExternally\n    set(value) = definedExternally\n  var toBox: CSSBoxType? /* = CSSBoxType.BORDER
*/\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ConvertCoordinateOptions(fromBox:
CSSBoxType? = CSSBoxType.BORDER, toBox: CSSBoxType? = CSSBoxType.BORDER):
ConvertCoordinateOptions {\n  val o = js("{}")\n  o["fromBox"] = fromBox\n  o["toBox"] = toBox\n
return o\n}\n\n/**\n * Exposes the JavaScript
[GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin\n */\n\npublic external
interface GeometryUtils {\n  fun getBoxQuads(options: BoxQuadOptions = definedExternally):
Array<DOMQuad>\n  fun convertQuadFromNode(quad: dynamic, from: dynamic, options:
ConvertCoordinateOptions = definedExternally): DOMQuad\n  fun convertRectFromNode(rect:
DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad\n  fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions =
definedExternally): DOMPoint\n}\n\n/**\n * Exposes the JavaScript
[Touch](https://developer.mozilla.org/en/docs/Web/API/Touch) to Kotlin\n */\n\npublic external abstract class Touch
{\n  open val identifier: Int\n  open val target: EventTarget\n  open val screenX: Int\n  open val screenY: Int\n
open val clientX: Int\n  open val clientY: Int\n  open val pageX: Int\n  open val pageY: Int\n  open val region:
String?\n}\n\npublic external abstract class TouchList : ItemArrayLike<Touch> {\n  override fun item(index: Int):
Touch?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun TouchList.get(index: Int):
Touch? = asDynamic()[index]\n\npublic external open class TouchEvent : UIEvent {\n  open val touches:
TouchList\n  open val targetTouches: TouchList\n  open val changedTouches: TouchList\n  open val altKey:
Boolean\n  open val metaKey: Boolean\n  open val ctrlKey: Boolean\n  open val shiftKey: Boolean\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET:
Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin\n */\n\npublic external open class
Image(width: Int = definedExternally, height: Int = definedExternally) : HTMLElement {\n  override var
onabort: ((Event) -> dynamic)?\n  override var onblur: ((FocusEvent) -> dynamic)?\n  override var oncancel:
((Event) -> dynamic)?\n  override var oncanplay: ((Event) -> dynamic)?\n  override var oncanplaythrough:
((Event) -> dynamic)?\n  override var onchange: ((Event) -> dynamic)?\n  override var onclick: ((MouseEvent) ->
dynamic)?\n  override var onclose: ((Event) -> dynamic)?\n  override var oncontextmenu: ((MouseEvent) ->
dynamic)?\n  override var oncuechange: ((Event) -> dynamic)?\n  override var ondblclick: ((MouseEvent) ->
dynamic)?\n  override var ondrag: ((DragEvent) -> dynamic)?\n  override var ondragend: ((DragEvent) ->
dynamic)?\n  override var ondragenter: ((DragEvent) -> dynamic)?\n  override var ondragexit: ((DragEvent) ->
dynamic)?\n  override var ondragleave: ((DragEvent) -> dynamic)?\n  override var ondragover: ((DragEvent) ->
dynamic)?\n  override var ondragstart: ((DragEvent) -> dynamic)?\n  override var ondrop: ((DragEvent) ->
dynamic)?\n  override var ondurationchange: ((Event) -> dynamic)?\n  override var onemptied: ((Event) ->
dynamic)?\n  override var onended: ((Event) -> dynamic)?\n  override var onerror: ((dynamic, String, Int, Int,
Any?) -> dynamic)?\n  override var onfocus: ((FocusEvent) -> dynamic)?\n  override var oninput: ((InputEvent) -
> dynamic)?\n  override var oninvalid: ((Event) -> dynamic)?\n  override var onkeydown: ((KeyboardEvent) ->
dynamic)?\n  override var onkeypress: ((KeyboardEvent) -> dynamic)?\n  override var onkeyup:
((KeyboardEvent) -> dynamic)?\n  override var onload: ((Event) -> dynamic)?\n  override var onloadeddata:
((Event) -> dynamic)?\n  override var onloadedmetadata: ((Event) -> dynamic)?\n  override var onloadend:
((Event) -> dynamic)?\n  override var onloadstart: ((ProgressEvent) -> dynamic)?\n  override var onmousedown:
((MouseEvent) -> dynamic)?\n  override var onmouseenter: ((MouseEvent) -> dynamic)?\n  override var
onmouseleave: ((MouseEvent) -> dynamic)?\n  override var onmousemove: ((MouseEvent) -> dynamic)?\n

```



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override var onmouseout: ((MouseEvent) -> dynamic)?\n  override var onmouseover: ((MouseEvent) ->
dynamic)?\n  override var onmouseup: ((MouseEvent) -> dynamic)?\n  override var onwheel: ((WheelEvent) ->
dynamic)?\n  override var onpause: ((Event) -> dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n
override var onplaying: ((Event) -> dynamic)?\n  override var onprogress: ((ProgressEvent) -> dynamic)?\n
override var onratechange: ((Event) -> dynamic)?\n  override var onreset: ((Event) -> dynamic)?\n  override var
onresize: ((Event) -> dynamic)?\n  override var onscroll: ((Event) -> dynamic)?\n  override var onseeked:
((Event) -> dynamic)?\n  override var onseeking: ((Event) -> dynamic)?\n  override var onselect: ((Event) ->
dynamic)?\n  override var onshow: ((Event) -> dynamic)?\n  override var onstalled: ((Event) -> dynamic)?\n
override var onsubmit: ((Event) -> dynamic)?\n  override var onsuspend: ((Event) -> dynamic)?\n  override var
ontimeupdate: ((Event) -> dynamic)?\n  override var ontoggle: ((Event) -> dynamic)?\n  override var
onvolumechange: ((Event) -> dynamic)?\n  override var onwaiting: ((Event) -> dynamic)?\n  override var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n  override var onlostpointercapture: ((PointerEvent) ->
dynamic)?\n  override var onpointerdown: ((PointerEvent) -> dynamic)?\n  override var onpointermove:
((PointerEvent) -> dynamic)?\n  override var onpointerup: ((PointerEvent) -> dynamic)?\n  override var
onpointercancel: ((PointerEvent) -> dynamic)?\n  override var onpointerover: ((PointerEvent) -> dynamic)?\n
override var onpointerout: ((PointerEvent) -> dynamic)?\n  override var onpointerenter: ((PointerEvent) ->
dynamic)?\n  override var onpointerleave: ((PointerEvent) -> dynamic)?\n  override var oncopy:
((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) -> dynamic)?\n  override var onpaste:
((ClipboardEvent) -> dynamic)?\n  override var contentEditable: String\n  override val isContentEditable:
Boolean\n  override val style: CSSStyleDeclaration\n  override val children: HTMLCollection\n  override val
firstElementChild: Element?\n  override val lastElementChild: Element?\n  override val childElementCount: Int\n
  override val previousElementSibling: Element?\n  override val nextElementSibling: Element?\n  override val
assignedSlot: HTMLSlotElement?\n  override fun prepend(vararg nodes: dynamic)\n  override fun append(vararg
nodes: dynamic)\n  override fun querySelector(selectors: String): Element?\n  override fun
querySelectorAll(selectors: String): NodeList\n  override fun before(vararg nodes: dynamic)\n  override fun
after(vararg nodes: dynamic)\n  override fun replaceWith(vararg nodes: dynamic)\n  override fun remove()\n
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n  override
fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n\n  public external open class
Audio(src: String = definedExternally) : HTMLAudioElement {\n  override var onabort: ((Event) -> dynamic)?\n
override var onblur: ((FocusEvent) -> dynamic)?\n  override var oncancel: ((Event) -> dynamic)?\n  override var
oncanplay: ((Event) -> dynamic)?\n  override var oncanplaythrough: ((Event) -> dynamic)?\n  override var
onchange: ((Event) -> dynamic)?\n  override var onclick: ((MouseEvent) -> dynamic)?\n  override var onclose:
((Event) -> dynamic)?\n  override var oncontextmenu: ((MouseEvent) -> dynamic)?\n  override var oncuechange:
((Event) -> dynamic)?\n  override var ondblclick: ((MouseEvent) -> dynamic)?\n  override var ondrag:
((DragEvent) -> dynamic)?\n  override var ondragend: ((DragEvent) -> dynamic)?\n  override var ondragenter:

```

```

((DragEvent) -> dynamic)?\n  override var ondragexit: ((DragEvent) -> dynamic)?\n  override var ondragleave:
((DragEvent) -> dynamic)?\n  override var ondragover: ((DragEvent) -> dynamic)?\n  override var ondragstart:
((DragEvent) -> dynamic)?\n  override var ondrop: ((DragEvent) -> dynamic)?\n  override var ondurationchange:
((Event) -> dynamic)?\n  override var onemptied: ((Event) -> dynamic)?\n  override var onended: ((Event) ->
dynamic)?\n  override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n  override var onfocus:
((FocusEvent) -> dynamic)?\n  override var oninput: ((InputEvent) -> dynamic)?\n  override var oninvalid:
((Event) -> dynamic)?\n  override var onkeydown: ((KeyboardEvent) -> dynamic)?\n  override var onkeypress:
((KeyboardEvent) -> dynamic)?\n  override var onkeyup: ((KeyboardEvent) -> dynamic)?\n  override var onload:
((Event) -> dynamic)?\n  override var onloadeddata: ((Event) -> dynamic)?\n  override var onloadedmetadata:
((Event) -> dynamic)?\n  override var onloadend: ((Event) -> dynamic)?\n  override var onloadstart:
((ProgressEvent) -> dynamic)?\n  override var onmousedown: ((MouseEvent) -> dynamic)?\n  override var
onmouseenter: ((MouseEvent) -> dynamic)?\n  override var onmouseleave: ((MouseEvent) -> dynamic)?\n
override var onmousemove: ((MouseEvent) -> dynamic)?\n  override var onmouseout: ((MouseEvent) ->
dynamic)?\n  override var onmouseover: ((MouseEvent) -> dynamic)?\n  override var onmouseup: ((MouseEvent)
-> dynamic)?\n  override var onwheel: ((WheelEvent) -> dynamic)?\n  override var onpause: ((Event) ->
dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n  override var onplaying: ((Event) -> dynamic)?\n
override var onprogress: ((ProgressEvent) -> dynamic)?\n  override var onratechange: ((Event) -> dynamic)?\n
override var onreset: ((Event) -> dynamic)?\n  override var onresize: ((Event) -> dynamic)?\n  override var
onscroll: ((Event) -> dynamic)?\n  override var onseeked: ((Event) -> dynamic)?\n  override var onseeking:
((Event) -> dynamic)?\n  override var onselect: ((Event) -> dynamic)?\n  override var onshow: ((Event) ->
dynamic)?\n  override var onstalled: ((Event) -> dynamic)?\n  override var onsubmit: ((Event) -> dynamic)?\n
override var onsuspend: ((Event) -> dynamic)?\n  override var ontimeupdate: ((Event) -> dynamic)?\n  override
var ontoggle: ((Event) -> dynamic)?\n  override var onvolumechange: ((Event) -> dynamic)?\n  override var
onwaiting: ((Event) -> dynamic)?\n  override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n  override
var onlostpointercapture: ((PointerEvent) -> dynamic)?\n  override var onpointerdown: ((PointerEvent) ->
dynamic)?\n  override var onpointermove: ((PointerEvent) -> dynamic)?\n  override var onpointerup:
((PointerEvent) -> dynamic)?\n  override var onpointercancel: ((PointerEvent) -> dynamic)?\n  override var
onpointerover: ((PointerEvent) -> dynamic)?\n  override var onpointerout: ((PointerEvent) -> dynamic)?\n
override var onpointerenter: ((PointerEvent) -> dynamic)?\n  override var onpointerleave: ((PointerEvent) ->
dynamic)?\n  override var oncopy: ((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) ->
dynamic)?\n  override var onpaste: ((ClipboardEvent) -> dynamic)?\n  override var contentEditable: String\n
override val isContentEditable: Boolean\n  override val style: CSSStyleDeclaration\n  override val children:
HTMLCollection\n  override val firstElementChild: Element?\n  override val lastElementChild: Element?\n
override val childElementCount: Int\n  override val previousElementSibling: Element?\n  override val
nextElementSibling: Element?\n  override val assignedSlot: HTMLSlotElement?\n  override fun prepend(vararg
nodes: dynamic)\n  override fun append(vararg nodes: dynamic)\n  override fun querySelector(selectors: String):
Element?\n  override fun querySelectorAll(selectors: String): NodeList\n  override fun before(vararg nodes:
dynamic)\n  override fun after(vararg nodes: dynamic)\n  override fun replaceWith(vararg nodes: dynamic)\n
override fun remove()\n  override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */):
Array<DOMQuad>\n  override fun convertQuadFromNode(quad: dynamic, from: dynamic, options:
ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun convertRectFromNode(rect:
DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n
override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n  companion object {\n    val NETWORK_EMPTY: Short\n    val
NETWORK_IDLE: Short\n    val NETWORK_LOADING: Short\n    val NETWORK_NO_SOURCE: Short\n
    val HAVE_NOTHING: Short\n    val HAVE_METADATA: Short\n    val HAVE_CURRENT_DATA:
Short\n    val HAVE_FUTURE_DATA: Short\n    val HAVE_ENOUGH_DATA: Short\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val

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CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
 Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
 DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
 DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
 DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
 DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
 [Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\n * \npublic external open class
 Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean =
 definedExternally, selected: Boolean = definedExternally) : HTMLInputElement {\n override var onabort:
 ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel: ((Event) ->
 dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough: ((Event) ->
 dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) ->
 dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) ->
 dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) ->
 dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) ->
 dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) ->
 dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) ->
 dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) ->
 dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) ->
 dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int,
 Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) -
 > dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) ->
 dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup:
 ((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata:
 ((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend:
 ((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var onmousedown:
 ((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n override var
 onmouseleave: ((MouseEvent) -> dynamic)?\n override var onmousemove: ((MouseEvent) -> dynamic)?\n
 override var onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover: ((MouseEvent) ->
 dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel: ((WheelEvent) ->
 dynamic)?\n override var onpause: ((Event) -> dynamic)?\n override var onplay: ((Event) -> dynamic)?\n
 override var onplaying: ((Event) -> dynamic)?\n override var onprogress: ((ProgressEvent) -> dynamic)?\n
 override var onratechange: ((Event) -> dynamic)?\n override var onreset: ((Event) -> dynamic)?\n override var
 onresize: ((Event) -> dynamic)?\n override var onscroll: ((Event) -> dynamic)?\n override var onseeked:
 ((Event) -> dynamic)?\n override var onseeking: ((Event) -> dynamic)?\n override var onselect: ((Event) ->
 dynamic)?\n override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n
 override var onsubmit: ((Event) -> dynamic)?\n override var onsuspend: ((Event) -> dynamic)?\n override var
 ontimeupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var
 onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var
 ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) ->
 dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove:
 ((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var
 onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n
 override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) ->
 dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy:
 ((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste:

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((ClipboardEvent) -> dynamic)?\n  override var contentEditable: String\n  override val isContentEditable:
Boolean\n  override val style: CSSStyleDeclaration\n  override val children: HTMLCollection\n  override val
firstElementChild: Element?\n  override val lastElementChild: Element?\n  override val childElementCount: Int\n
  override val previousElementSibling: Element?\n  override val nextElementSibling: Element?\n  override val
assignedSlot: HTMLSlotElement?\n  override fun prepend(vararg nodes: dynamic)\n  override fun append(vararg
nodes: dynamic)\n  override fun querySelector(selectors: String): Element?\n  override fun
querySelectorAll(selectors: String): NodeList\n  override fun before(vararg nodes: dynamic)\n  override fun
after(vararg nodes: dynamic)\n  override fun replaceWith(vararg nodes: dynamic)\n  override fun remove()\n
  override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n  override
fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n\n  public external interface
UnionElementOrHTMLCollection\n\n  public external interface UnionElementOrRadioNodeList\n\n  public external
interface UnionHTMLOptGroupElementOrHTMLOptionElement\n\n  public external interface
UnionAudioTrackOrTextTrackOrVideoTrack\n\n  public external interface UnionElementOrMouseEvent\n\n  public
external interface UnionMessagePortOrWindowProxy\n\n  public external interface MediaPlayer\n\n  public
external interface RenderingContext\n\n  public external interface HTMLOrSVGImageElement :
CanvasImageSource\n\n  public external interface CanvasImageSource : ImageBitmapSource\n\n  public external
interface ImageBitmapSource\n\n  public external interface HTMLOrSVGScriptElement\n\n/* please, don't
implement this interface!
*/\n\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\n  public external
interface DocumentReadyState {\n    companion object\n  }\n\n  public inline val
DocumentReadyState.Companion.LOADING: DocumentReadyState get() =
"loading".asDynamic().unsafeCast<DocumentReadyState>()\n\n  public inline val
DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() =
"interactive".asDynamic().unsafeCast<DocumentReadyState>()\n\n  public inline val
DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() =
"complete".asDynamic().unsafeCast<DocumentReadyState>()\n\n/* please, don't implement this interface!
*/\n\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\n  public external
interface CanPlayTypeResult {\n    companion object\n  }\n\n  public inline val
CanPlayTypeResult.Companion.EMPTY: CanPlayTypeResult get() =
"".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n  public inline val
CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() = "maybe".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n  public inline val
CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() =
"probably".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n/* please, don't implement this interface!
*/\n\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\n  public external
interface TextTrackMode {\n    companion object\n  }\n\n  public inline val
TextTrackMode.Companion.DISABLED:

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TextTrackMode get() = \"disabled\".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.HIDDEN: TextTrackMode get() =
\"hidden\".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.SHOWING: TextTrackMode get() =
\"showing\".asDynamic().unsafeCast<TextTrackMode>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface TextTrackKind {\n\n    companion object\n\n}\n\npublic inline val TextTrackKind.Companion.SUBTITLES:
TextTrackKind get() = \"subtitles\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CAPTIONS: TextTrackKind get() =
\"captions\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.DESCRPTIONS: TextTrackKind get() =
\"descriptions\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CHAPTERS: TextTrackKind get() =
\"chapters\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.METADATA: TextTrackKind get() =
\"metadata\".asDynamic().unsafeCast<TextTrackKind>()\n\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface SelectionMode {\n\n    companion object\n\n}\n\npublic inline val SelectionMode.Companion.SELECT:
SelectionMode get() = \"select\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val
SelectionMode.Companion.START: SelectionMode get() =
\"start\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.END:
SelectionMode get() = \"end\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val
SelectionMode.Companion.PRESERVE: SelectionMode get() =
\"preserve\".asDynamic().unsafeCast<SelectionMode>()\n\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface CanvasFillRule {\n\n    companion object\n\n}\n\npublic inline val CanvasFillRule.Companion.NONZERO:
CanvasFillRule get() = \"nonzero\".asDynamic().unsafeCast<CanvasFillRule>()\n\npublic inline val
CanvasFillRule.Companion.EVENODD: CanvasFillRule get() =
\"evenodd\".asDynamic().unsafeCast<CanvasFillRule>()\n\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ImageSmoothingQuality {\n\n    companion object\n\n}\n\npublic inline val
ImageSmoothingQuality.Companion.LOW: ImageSmoothingQuality get() =
\"low\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() =
\"medium\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.HIGH: ImageSmoothingQuality get() =
\"high\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface CanvasLineCap {\n\n    companion object\n\n}\n\npublic inline val CanvasLineCap.Companion.BUTT:
CanvasLineCap get() = \"butt\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val
CanvasLineCap.Companion.ROUND: CanvasLineCap get() =
\"round\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.SQUARE:
CanvasLineCap get() = \"square\".asDynamic().unsafeCast<CanvasLineCap>()\n\n\n\n/* please, don't implement this
interface! *\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic
external interface CanvasLineJoin {\n\n    companion object\n\n}\n\npublic inline val
CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() =
\"round\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.BEVEL:
CanvasLineJoin get() = \"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val

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CanvasLineJoin.Companion.MITER: CanvasLineJoin get() =
  \"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this interface!
  *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface CanvasTextAlign {\n  companion object\n}\n\npublic inline val CanvasTextAlign.Companion.START:
CanvasTextAlign get() = \"start\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.END: CanvasTextAlign get() =
  \"end\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.LEFT:
CanvasTextAlign get() = \"left\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.RIGHT: CanvasTextAlign get() =
  \"right\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() =
  \"center\".asDynamic().unsafeCast<CanvasTextAlign>()\n\n/* please, don't implement this interface!
  *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface CanvasTextBaseline {\n  companion object\n}\n\npublic inline val CanvasTextBaseline.Companion.TOP:
CanvasTextBaseline get() = \"top\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() =
  \"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() =
  \"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
  \"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
  \"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() =
  \"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\n/* please, don't implement this interface!
  *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface CanvasDirection {\n  companion object\n}\n\npublic inline val CanvasDirection.Companion.LTR:
CanvasDirection get() = \"ltr\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val
CanvasDirection.Companion.RTL: CanvasDirection get() =
  \"rtl\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.INHERIT:
CanvasDirection get() = \"inherit\".asDynamic().unsafeCast<CanvasDirection>()\n\n/* please, don't implement this
interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic
external interface ScrollRestoration {\n  companion object\n}\n\npublic inline val
ScrollRestoration.Companion.AUTO: ScrollRestoration get() =
  \"auto\".asDynamic().unsafeCast<ScrollRestoration>()\n\npublic inline val
ScrollRestoration.Companion.MANUAL: ScrollRestoration get() =
  \"manual\".asDynamic().unsafeCast<ScrollRestoration>()\n\n/* please, don't implement this interface!
  *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ImageOrientation {\n  companion object\n}\n\npublic inline val ImageOrientation.Companion.NONE:
ImageOrientation get() = \"none\".asDynamic().unsafeCast<ImageOrientation>()\n\npublic inline val
ImageOrientation.Companion.FLIPY: ImageOrientation get() =
  \"flipY\".asDynamic().unsafeCast<ImageOrientation>()\n\n/* please, don't implement this interface!
  *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface PremultiplyAlpha {\n  companion object\n}\n\npublic inline val PremultiplyAlpha.Companion.NONE:
PremultiplyAlpha get() = \"none\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get() =
  \"premultiply\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() =

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\"default\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ColorSpaceConversion {\n  companion object\n}\n\npublic inline val
ColorSpaceConversion.Companion.NONE: ColorSpaceConversion get() =
\"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\npublic inline val
ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion get() =
\"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ResizeQuality {\n  companion object\n}\n\npublic inline val ResizeQuality.Companion.PIXELATED:
ResizeQuality get() = \"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.LOW: ResizeQuality get() =
\"low\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.MEDIUM:
ResizeQuality get() = \"medium\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.HIGH: ResizeQuality get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\n\n/*
please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface BinaryType {\n  companion object\n}\n\npublic inline val BinaryType.Companion.BLOB: BinaryType
get() = \"blob\".asDynamic().unsafeCast<BinaryType>()\n\npublic inline val
BinaryType.Companion.ARRAYBUFFER: BinaryType get() =
\"arraybuffer\".asDynamic().unsafeCast<BinaryType>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface WorkerType {\n  companion object\n}\n\npublic inline val WorkerType.Companion.CLASSIC:
WorkerType get() = \"classic\".asDynamic().unsafeCast<WorkerType>()\n\npublic inline val
WorkerType.Companion.MODULE: WorkerType get() =
\"module\".asDynamic().unsafeCast<WorkerType>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ShadowRootMode {\n  companion object\n}\n\npublic inline val ShadowRootMode.Companion.OPEN:
ShadowRootMode get() = \"open\".asDynamic().unsafeCast<ShadowRootMode>()\n\npublic inline val
ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
\"closed\".asDynamic().unsafeCast<ShadowRootMode>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ScrollBehavior {\n  companion object\n}\n\npublic inline val ScrollBehavior.Companion.AUTO:
ScrollBehavior get() = \"auto\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val
ScrollBehavior.Companion.INSTANT: ScrollBehavior get() =
\"instant\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val ScrollBehavior.Companion.SMOOTH:
ScrollBehavior get() = \"smooth\".asDynamic().unsafeCast<ScrollBehavior>()\n\n/* please, don't implement this
interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic
external interface ScrollLogicalPosition {\n  companion object\n}\n\npublic inline val
ScrollLogicalPosition.Companion.START: ScrollLogicalPosition get() =
\"start\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() =
\"center\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
\"end\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
\"nearest\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface CSSBoxType {\n  companion object\n}\n\npublic inline val CSSBoxType.Companion.MARGIN:

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CSSBoxType get() = `margin`.asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.BORDER: CSSBoxType get() =
`border`.asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.PADDING:
CSSBoxType get() = `padding`.asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.CONTENT: CSSBoxType get() =
`content`.asDynamic().unsafeCast<CSSBoxType>()"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n * ^\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.fetch\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.files.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\n\n * ^\n\npublic external open class
Headers(init: dynamic = definedExternally) {\n    fun append(name: String, value: String)\n    fun delete(name:
String)\n    fun get(name: String): String?\n    fun has(name: String): Boolean\n    fun set(name: String, value:
String)\n}\n\n/**\n * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to
Kotlin\n\n * ^\n\npublic external interface Body {\n    val bodyUsed: Boolean\n    fun arrayBuffer():
Promise<ArrayBuffer>\n    fun blob(): Promise<Blob>\n    fun formData(): Promise<FormData>\n    fun json():
Promise<Any?>\n    fun text(): Promise<String>\n}\n\n/**\n * Exposes the JavaScript
[Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\n\n * ^\n\npublic external open class
Request(input: dynamic, init: RequestInit = definedExternally) : Body {\n    open val method: String\n    open val
url: String\n    open val headers: Headers\n    open val type: RequestType\n    open val destination:
RequestDestination\n    open val referrer: String\n    open val referrerPolicy: dynamic\n    open val mode:
RequestMode\n    open val credentials: RequestCredentials\n    open val cache: RequestCache\n    open val redirect:
RequestRedirect\n    open val integrity: String\n    open val keepalive: Boolean\n    override val bodyUsed:
Boolean\n    fun clone(): Request\n    override fun arrayBuffer(): Promise<ArrayBuffer>\n    override fun blob():
Promise<Blob>\n    override fun formData(): Promise<FormData>\n    override fun json(): Promise<Any?>\n    override
fun text(): Promise<String>\n}\n\npublic external interface RequestInit {\n    var method: String?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var headers: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n    var body: dynamic\n    get() = definedExternally\n
set(value) = definedExternally\n    var referrer: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var referrerPolicy: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n    var mode: RequestMode?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var credentials: RequestCredentials?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var cache: RequestCache?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var redirect: RequestRedirect?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var integrity: String?\n    get() = definedExternally\n    set(value) = definedExternally\n
var keepalive: Boolean?\n    get() = definedExternally\n    set(value) = definedExternally\n    var window:
Any?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(`INVISIBLE_REFERENCE`,
`INVISIBLE_MEMBER`)\n\n@kotlin.internal.InlineOnly\n\npublic inline fun RequestInit(method: String? =
undefined, headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy:
dynamic = undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache:
RequestCache? = undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive:
Boolean? = undefined, window: Any? = undefined): RequestInit {\n    val o = js(`{}`)\n    o["method"] =
method\n    o["headers"] = headers\n    o["body"] = body\n    o["referrer"] = referrer\n    o["referrerPolicy"] =
referrerPolicy\n    o["mode"] = mode\n    o["credentials"] = credentials\n    o["cache"] = cache\n    o["redirect"]
= redirect\n    o["integrity"] = integrity\n    o["keepalive"] = keepalive\n    o["window"] = window\n    return
o\n}\n\n/**\n * Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to
Kotlin\n\n * ^\n\npublic external open class Response(body: dynamic = definedExternally, init: ResponseInit =

```



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definedExternally) : Body {\n  open val type: ResponseType\n  open val url: String\n  open val redirected:
Boolean\n  open val status: Short\n  open val ok: Boolean\n  open val statusText: String\n  open val headers:
Headers\n  open val body: dynamic\n  open val trailer: Promise<Headers>\n  override val bodyUsed: Boolean\n
fun clone(): Response\n  override fun arrayBuffer(): Promise<ArrayBuffer>\n  override fun blob():
Promise<Blob>\n  override fun formData(): Promise<FormData>\n  override fun json(): Promise<Any?>\n
override fun text(): Promise<String>\n\n  companion object {\n    fun error(): Response\n    fun redirect(url:
String, status: Short = definedExternally): Response\n  }\n\n  public external interface ResponseInit {\n  var
status: Short? /* = 200 */\n    get() = definedExternally\n    set(value) = definedExternally\n  var statusText:
String? /* = "OK" */\n    get() = definedExternally\n    set(value) = definedExternally\n  var headers:
dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ResponseInit(status: Short? = 200,
statusText: String? = "OK", headers: dynamic = undefined): ResponseInit {\n  val o = js("{}")\n  o["status"]
= status\n  o["statusText"] = statusText\n  o["headers"] = headers\n  return o\n}\n\n/* please, don't implement
this interface! */\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic
external interface RequestType {\n  companion object\n}\n\npublic inline val RequestType.Companion.EMPTY:
RequestType get() = ""\n\npublic inline val
RequestType.Companion.AUDIO: RequestType get() =
"audio"\n\npublic inline val RequestType.Companion.FONT:
RequestType get() = "font"\n\npublic inline val
RequestType.Companion.IMAGE: RequestType get() =
"image"\n\npublic inline val RequestType.Companion.SCRIPT:
RequestType get() = "script"\n\npublic inline val
RequestType.Companion.STYLE: RequestType get() =
"style"\n\npublic inline val RequestType.Companion.TRACK:
RequestType get() = "track"\n\npublic inline val
RequestType.Companion.VIDEO: RequestType get() = "video"\n\n/*
please, don't implement this interface!
*/\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface RequestDestination {\n  companion object\n}\n\npublic inline val
RequestDestination.Companion.EMPTY: RequestDestination get() =
""\n\npublic inline val
RequestDestination.Companion.DOCUMENT: RequestDestination get() =
"document"\n\npublic inline val
RequestDestination.Companion.EMBED: RequestDestination get() =
"embed"\n\npublic inline val
RequestDestination.Companion.FONT: RequestDestination get() =
"font"\n\npublic inline val
RequestDestination.Companion.IMAGE: RequestDestination get() =
"image"\n\npublic inline val
RequestDestination.Companion.MANIFEST: RequestDestination get() =
"manifest"\n\npublic inline val
RequestDestination.Companion.MEDIA: RequestDestination get() =
"media"\n\npublic inline val
RequestDestination.Companion.OBJECT: RequestDestination get() =
"object"\n\npublic inline val
RequestDestination.Companion.REPORT: RequestDestination get() =
"report"\n\npublic inline val

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RequestDestination.Companion.SCRIPT: RequestDestination get() =
`script`.asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SERVICEMANAGER: RequestDestination get() =
`servicemanager`.asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SHAREDWORKER: RequestDestination get() =
`sharedworker`.asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.STYLE: RequestDestination get() =
`style`.asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.WORKER: RequestDestination get() =
`worker`.asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.XSLT: RequestDestination get() =
`xslt`.asDynamic().unsafeCast<RequestDestination>()\n\n/* please, don't implement this interface!
*\n\n@JsName(`null`)\n\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic external
interface RequestMode {\n  companion object\n}\n\npublic inline val RequestMode.Companion.NAVIGATE:
RequestMode get() = `navigate`.asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.SAME_ORIGIN: RequestMode get() = `same-
origin`.asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.NO_CORS:
RequestMode get() = `no-cors`.asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.CORS: RequestMode get() = `cors`.asDynamic().unsafeCast<RequestMode>()\n\n/*
please, don't implement this interface!
*\n\n@JsName(`null`)\n\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic external
interface RequestCredentials {\n  companion object\n}\n\npublic inline val RequestCredentials.Companion.OMIT:
RequestCredentials get() = `omit`.asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = `same-
origin`.asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.INCLUDE: RequestCredentials get() =
`include`.asDynamic().unsafeCast<RequestCredentials>()\n\n/* please, don't implement this interface!
*\n\n@JsName(`null`)\n\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic external
interface RequestCache {\n  companion object\n}\n\npublic inline val RequestCache.Companion.DEFAULT:
RequestCache get() = `default`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.NO_STORE: RequestCache get() = `no-
store`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.RELOAD:
RequestCache get() = `reload`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.NO_CACHE: RequestCache get() = `no-
cache`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.FORCE_CACHE: RequestCache get() = `force-
cache`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = `only-if-
cached`.asDynamic().unsafeCast<RequestCache>()\n\n/* please, don't implement this interface!
*\n\n@JsName(`null`)\n\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic external
interface RequestRedirect {\n  companion object\n}\n\npublic inline val RequestRedirect.Companion.FOLLOW:
RequestRedirect get() = `follow`.asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val
RequestRedirect.Companion.ERROR: RequestRedirect get() =
`error`.asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.MANUAL:
RequestRedirect get() = `manual`.asDynamic().unsafeCast<RequestRedirect>()\n\n/* please, don't implement this
interface! *\n\n@JsName(`null`)\n\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic
external interface ResponseType {\n  companion object\n}\n\npublic inline val ResponseType.Companion.BASIC:
ResponseType get() = `basic`.asDynamic().unsafeCast<ResponseType>()\n\npublic inline val

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ResponseType.Companion.CORS: ResponseType get() =
\"cors\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.DEFAULT:
ResponseType get() = \"default\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.ERROR: ResponseType get() =
\"error\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.OPAQUE:
ResponseType get() = \"opaque\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() =
\"opaqueredirect\".asDynamic().unsafeCast<ResponseType>()\", \"/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *^\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediacapture\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes
the JavaScript [MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\n *\n\npublic
external open class MediaStream() : EventTarget, MediaProvider {\n  constructor(stream: MediaStream)\n
constructor(tracks: Array<MediaStreamTrack>)\n  open val id: String\n  open val active: Boolean\n  var
onaddtrack: ((MediaStreamTrackEvent) -> dynamic)?\n  var onremovetrack: ((MediaStreamTrackEvent) ->
dynamic)?\n  fun getAudioTracks(): Array<MediaStreamTrack>\n  fun getVideoTracks():
Array<MediaStreamTrack>\n  fun getTracks(): Array<MediaStreamTrack>\n  fun getTrackById(trackId: String):
MediaStreamTrack?\n  fun addTrack(track: MediaStreamTrack)\n  fun removeTrack(track: MediaStreamTrack)\n
  fun clone(): MediaStream\n}\n\n/**\n * Exposes the JavaScript
[MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\n *\n\npublic
external abstract class MediaStreamTrack : EventTarget {\n  open val kind: String\n  open val id: String\n  open
val label: String\n  open var enabled: Boolean\n  open val muted: Boolean\n  open var onmute: ((Event) ->
dynamic)?\n  open var onunmute: ((Event) -> dynamic)?\n  open val readyState: MediaStreamTrackState\n
open var onended: ((Event) -> dynamic)?\n  open var onoverconstrained: ((Event) -> dynamic)?\n  fun clone():
MediaStreamTrack\n  fun stop()\n  fun getCapabilities(): MediaTrackCapabilities\n  fun getConstraints():
MediaTrackConstraints\n  fun getSettings(): MediaTrackSettings\n  fun applyConstraints(constraints:
MediaTrackConstraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstrain
ts) to Kotlin\n *\n\npublic external interface MediaTrackSupportedConstraints {\n  var width: Boolean? /* = true
*/\n  get() = definedExternally\n  set(value) = definedExternally\n  var height: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var aspectRatio: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var frameRate: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var facingMode: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var resizeMode: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var volume: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var sampleRate: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var sampleSize: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var echoCancellation: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var autoGainControl: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var noiseSuppression: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var latency: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var channelCount: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var deviceId: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n  var groupId: Boolean? /* = true */\n
get() = definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true,

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frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true,
sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true, autoGainControl:
Boolean? = true, noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true,
deviceId: Boolean? = true, groupId: Boolean? = true): MediaTrackSupportedConstraints {\n  val o = js("{}")\n
o["width"] = width\n  o["height"] = height\n  o["aspectRatio"] = aspectRatio\n  o["frameRate"] =
frameRate\n  o["facingMode"] = facingMode\n  o["resizeMode"] = resizeMode\n  o["volume"] = volume\n
o["sampleRate"] = sampleRate\n  o["sampleSize"] = sampleSize\n  o["echoCancellation"] =
echoCancellation\n  o["autoGainControl"] = autoGainControl\n  o["noiseSuppression"] = noiseSuppression\n
o["latency"] = latency\n  o["channelCount"] = channelCount\n  o["deviceId"] = deviceId\n  o["groupId"] =
groupId\n  return o\n}\n\npublic external interface MediaTrackCapabilities {\n  var width: ULongRange?\n
get() = definedExternally\n  set(value) = definedExternally\n  var height: ULongRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var aspectRatio: DoubleRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var frameRate: DoubleRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var facingMode: Array<String>?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var resizeMode: Array<String>?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var volume: DoubleRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var sampleRate: ULongRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var sampleSize: ULongRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var echoCancellation: Array<Boolean>?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var autoGainControl: Array<Boolean>?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var noiseSuppression: Array<Boolean>?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var latency: DoubleRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var channelCount: ULongRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var deviceId: String?\n  get() = definedExternally\n
set(value) = definedExternally\n  var groupId: String?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun MediaTrackCapabilities(width:
ULongRange? = undefined, height: ULongRange? = undefined, aspectRatio: DoubleRange? = undefined,
frameRate: DoubleRange? = undefined, facingMode: Array<String>? = undefined, resizeMode: Array<String>? =
undefined, volume: DoubleRange? = undefined, sampleRate: ULongRange? = undefined, sampleSize:
ULongRange? = undefined, echoCancellation: Array<Boolean>? = undefined, autoGainControl: Array<Boolean>?
= undefined, noiseSuppression: Array<Boolean>? = undefined, latency: DoubleRange? = undefined, channelCount:
ULongRange? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackCapabilities
{\n  val o = js("{}")\n  o["width"] = width\n  o["height"] = height\n  o["aspectRatio"] = aspectRatio\n
o["frameRate"] = frameRate\n  o["facingMode"] = facingMode\n  o["resizeMode"] = resizeMode\n
o["volume"] = volume\n  o["sampleRate"] = sampleRate\n  o["sampleSize"] = sampleSize\n
o["echoCancellation"] = echoCancellation\n  o["autoGainControl"] = autoGainControl\n
o["noiseSuppression"] = noiseSuppression\n  o["latency"] = latency\n  o["channelCount"] = channelCount\n
o["deviceId"] = deviceId\n  o["groupId"] = groupId\n  return o\n}\n\n**\n * Exposes the JavaScript
[MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin\n
*\n\npublic external interface MediaTrackConstraints : MediaTrackConstraintSet {\n  var advanced:
Array<MediaTrackConstraintSet>?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun MediaTrackConstraints(advanced:
Array<MediaTrackConstraintSet>? = undefined, width: dynamic = undefined, height: dynamic = undefined,
aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined,
resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize:
dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined,

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noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined,
deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraints {\n  val o = js("{}")\n
o["advanced"] = advanced\n  o["width"] = width\n  o["height"] = height\n  o["aspectRatio"] =
aspectRatio\n  o["frameRate"] = frameRate\n  o["facingMode"] = facingMode\n  o["resizeMode"] =
resizeMode\n  o["volume"] = volume\n  o["sampleRate"] = sampleRate\n  o["sampleSize"] = sampleSize\n
o["echoCancellation"] = echoCancellation\n  o["autoGainControl"] = autoGainControl\n
o["noiseSuppression"] = noiseSuppression\n  o["latency"] = latency\n  o["channelCount"] = channelCount\n
o["deviceId"] = deviceId\n  o["groupId"] = groupId\n  return o\n}\n\npublic external interface
MediaTrackConstraintSet {\n  var width: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n  var height: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n
var aspectRatio: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n  var frameRate:
dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n  var facingMode: dynamic\n
get() = definedExternally\n    set(value) = definedExternally\n  var resizeMode: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n  var volume: dynamic\n    get() = definedExternally\n
set(value) = definedExternally\n  var sampleRate: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n  var sampleSize: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n  var echoCancellation: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n  var autoGainControl: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n  var noiseSuppression: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n  var latency: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n
var channelCount: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n  var deviceId:
dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n  var groupId: dynamic\n    get()
= definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackConstraintSet(width:
dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic =
undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined,
sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined,
autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined,
channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined):
MediaTrackConstraintSet {\n  val o = js("{}")\n  o["width"] = width\n  o["height"] = height\n
o["aspectRatio"] = aspectRatio\n  o["frameRate"] = frameRate\n  o["facingMode"] = facingMode\n
o["resizeMode"] = resizeMode\n  o["volume"] = volume\n  o["sampleRate"] = sampleRate\n
o["sampleSize"] = sampleSize\n  o["echoCancellation"] = echoCancellation\n  o["autoGainControl"] =
autoGainControl\n  o["noiseSuppression"] = noiseSuppression\n  o["latency"] = latency\n
o["channelCount"] = channelCount\n  o["deviceId"] = deviceId\n  o["groupId"] = groupId\n  return
o\n}\n\n/**\n * Exposes the JavaScript
[MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin\n *\n\npublic
external interface MediaTrackSettings {\n  var width: Int?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var height: Int?\n    get() = definedExternally\n    set(value) = definedExternally\n  var
aspectRatio: Double?\n    get() = definedExternally\n    set(value) = definedExternally\n  var frameRate:
Double?\n    get() = definedExternally\n    set(value) = definedExternally\n  var facingMode: String?\n
get() = definedExternally\n    set(value) = definedExternally\n  var resizeMode: String?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var volume: Double?\n    get() = definedExternally\n
set(value) = definedExternally\n  var sampleRate: Int?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var sampleSize: Int?\n    get() = definedExternally\n    set(value) = definedExternally\n
var echoCancellation: Boolean?\n    get() = definedExternally\n    set(value) = definedExternally\n  var
autoGainControl: Boolean?\n    get() = definedExternally\n    set(value) = definedExternally\n  var
noiseSuppression: Boolean?\n    get() = definedExternally\n    set(value) = definedExternally\n  var latency:

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Double? \n    get() = definedExternally \n    set(value) = definedExternally \n    var channelCount: Int? \n
get() = definedExternally \n    set(value) = definedExternally \n    var deviceId: String? \n    get() =
definedExternally \n    set(value) = definedExternally \n    var groupId: String? \n    get() = definedExternally \n
    set(value) = definedExternally \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun MediaTrackSettings(width: Int? =
undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined,
facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate: Int?
= undefined, sampleSize: Int? = undefined, echoCancellation: Boolean? = undefined, autoGainControl: Boolean? =
undefined, noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int? = undefined,
deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings { \n    val o = js("{}") \n
o["width"] = width \n    o["height"] = height \n    o["aspectRatio"] = aspectRatio \n    o["frameRate"] =
frameRate \n    o["facingMode"] = facingMode \n    o["resizeMode"] = resizeMode \n    o["volume"] = volume \n
o["sampleRate"] = sampleRate \n    o["sampleSize"] = sampleSize \n    o["echoCancellation"] =
echoCancellation \n    o["autoGainControl"] = autoGainControl \n    o["noiseSuppression"] = noiseSuppression \n
o["latency"] = latency \n    o["channelCount"] = channelCount \n    o["deviceId"] = deviceId \n    o["groupId"] =
groupId \n    return o \n} \n \n /** \n * Exposes the JavaScript
[MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin \n
*/ \n public external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) :
Event { \n    open val track: MediaStreamTrack \n \n    companion object { \n        val NONE: Short \n        val
CAPTURING_PHASE: Short \n        val AT_TARGET: Short \n        val BUBBLING_PHASE: Short \n
    } \n \n \n public external interface MediaStreamTrackEventInit : EventInit { \n    var track:
MediaStreamTrack? \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun MediaStreamTrackEventInit(track:
MediaStreamTrack?, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
MediaStreamTrackEventInit { \n    val o = js("{}") \n    o["track"] = track \n    o["bubbles"] = bubbles \n
o["cancelable"] = cancelable \n    o["composed"] = composed \n    return o \n} \n \n public external open class
OverconstrainedErrorEvent(type: String, eventInitDict: OverconstrainedErrorEventInit) : Event { \n    open val error:
dynamic \n \n    companion object { \n        val NONE: Short \n        val CAPTURING_PHASE: Short \n        val
AT_TARGET: Short \n        val BUBBLING_PHASE: Short \n    } \n \n \n public external interface
OverconstrainedErrorEventInit : EventInit { \n    var error: dynamic /* = null */ \n    get() = definedExternally \n
set(value) = definedExternally \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun OverconstrainedErrorEventInit(error:
dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
OverconstrainedErrorEventInit { \n    val o = js("{}") \n    o["error"] = error \n    o["bubbles"] = bubbles \n
o["cancelable"] = cancelable \n    o["composed"] = composed \n    return o \n} \n \n /** \n * Exposes the JavaScript
[MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin \n */ \n public external
abstract class MediaDevices : EventTarget { \n    open var ondevicechange: ((Event) -> dynamic)? \n    fun
enumerateDevices(): Promise<Array<MediaDeviceInfo>> \n    fun getSupportedConstraints():
MediaTrackSupportedConstraints \n    fun getUserMedia(constraints: MediaStreamConstraints = definedExternally):
Promise<MediaStream> \n} \n \n /** \n * Exposes the JavaScript
[MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin \n */ \n public
external abstract class MediaDeviceInfo { \n    open val deviceId: String \n    open val kind: MediaDeviceKind \n
open val label: String \n    open val groupId: String \n    fun toJSON(): dynamic \n} \n \n public external abstract class
InputDeviceInfo : MediaDeviceInfo { \n    fun getCapabilities(): MediaTrackCapabilities \n} \n \n /** \n * Exposes the
JavaScript [MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to
Kotlin \n */ \n public external interface MediaStreamConstraints { \n    var video: dynamic /* = false */ \n    get() =
definedExternally \n    set(value) = definedExternally \n    var audio: dynamic /* = false */ \n    get() =
definedExternally \n    set(value) = definedExternally \n} \n \n @Suppress("INVISIBLE_REFERENCE",

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\ "INVISIBLE_MEMBER"\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamConstraints(video:
dynamic = false, audio: dynamic = false): MediaStreamConstraints {\n val o = js("\({}\)")\n o["video"] =
video\n o["audio"] = audio\n return o\n}\n\npublic external interface ConstrainingPattern {\n var
onoverconstrained: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
fun getCapabilities(): Capabilities\n fun getConstraints(): Constraints\n fun getSettings(): Settings\n fun
applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the
JavaScript [DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin\n */\npublic
external interface DoubleRange {\n var max: Double?\n get() = definedExternally\n set(value) =
definedExternally\n var min: Double?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleRange(max: Double? =
undefined, min: Double? = undefined): DoubleRange {\n val o = js("\({}\)")\n o["max"] = max\n o["min"] =
min\n return o\n}\n\npublic external interface ConstrainDoubleRange : DoubleRange {\n var exact: Double?\n
get() = definedExternally\n set(value) = definedExternally\n var ideal: Double?\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDoubleRange(exact: Double?
= undefined, ideal: Double? = undefined, max: Double? = undefined, min: Double? = undefined):
ConstrainDoubleRange {\n val o = js("\({}\)")\n o["exact"] = exact\n o["ideal"] = ideal\n o["max"] =
max\n o["min"] = min\n return o\n}\n\npublic external interface ULongRange {\n var max: Int?\n get() =
definedExternally\n set(value) = definedExternally\n var min: Int?\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange(max: Int? = undefined,
min: Int? = undefined): ULongRange {\n val o = js("\({}\)")\n o["max"] = max\n o["min"] = min\n return
o\n}\n\npublic external interface ConstrainULongRange : ULongRange {\n var exact: Int?\n get() =
definedExternally\n set(value) = definedExternally\n var ideal: Int?\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainULongRange(exact: Int? =
undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int? = undefined): ConstrainULongRange {\n val o
= js("\({}\)")\n o["exact"] = exact\n o["ideal"] = ideal\n o["max"] = max\n o["min"] = min\n return
o\n}\n\n/**\n * Exposes the JavaScript
[ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to
Kotlin\n */\npublic external interface ConstrainBooleanParameters {\n var exact: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var ideal: Boolean?\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainBooleanParameters(exact:
Boolean? = undefined, ideal: Boolean? = undefined): ConstrainBooleanParameters {\n val o = js("\({}\)")\n
o["exact"] = exact\n o["ideal"] = ideal\n return o\n}\n\n/**\n * Exposes the JavaScript
[ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters)
to Kotlin\n */\npublic external interface ConstrainDOMStringParameters {\n var exact: dynamic\n get() =
definedExternally\n set(value) = definedExternally\n var ideal: dynamic\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined):
ConstrainDOMStringParameters {\n val o = js("\({}\)")\n o["exact"] = exact\n o["ideal"] = ideal\n return
o\n}\n\npublic external interface Capabilities\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun Capabilities(): Capabilities {\n val o
= js("\({}\)")\n return o\n}\n\npublic external interface Settings\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun Settings(): Settings {\n val o =

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definedExternally)\n fun setLiveSeekableRange(start: Double, end: Double)\n fun clearLiveSeekableRange()\n\n companion object {\n fun isTypeSupported(type: String): Boolean\n }\n}\n\n/**\n * Exposes the JavaScript [SourceBuffer](https://developer.mozilla.org/en/docs/Web/API/SourceBuffer) to Kotlin\n */\n\npublic external abstract class SourceBuffer : EventTarget {\n open var mode: AppendMode\n open val updating: Boolean\n open val buffered: TimeRanges\n open var timestampOffset: Double\n open val audioTracks: AudioTrackList\n open val videoTracks: VideoTrackList\n open val textTracks: TextTrackList\n open var appendWindowStart: Double\n open var appendWindowEnd: Double\n open var onupdatestart: ((Event) -> dynamic)?\n open var onupdate: ((Event) -> dynamic)?\n open var onupdateend: ((Event) -> dynamic)?\n open var onerror: ((Event) -> dynamic)?\n open var onabort: ((Event) -> dynamic)?\n fun appendBuffer(data: dynamic)\n fun abort()\n fun remove(start: Double, end: Double)\n}\n\n/**\n * Exposes the JavaScript [SourceBufferList](https://developer.mozilla.org/en/docs/Web/API/SourceBufferList) to Kotlin\n */\n\npublic external abstract class SourceBufferList : EventTarget {\n open val length: Int\n open var onaddsourcebuffer: ((Event) -> dynamic)?\n open var onremovesourcebuffer: ((Event) -> dynamic)?\n}\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SourceBufferList.get(index: Int): SourceBuffer? = asDynamic()[index]\n\n/* please, don't implement this interface!\n */\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface ReadyState {\n companion object\n}\n\npublic inline val ReadyState.Companion.CLOSED: ReadyState\n\nget() = "closed".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val ReadyState.Companion.OPEN: ReadyState\n\nget() = "open".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val ReadyState.Companion.ENDED: ReadyState\n\nget() = "ended".asDynamic().unsafeCast<ReadyState>()\n\n/* please, don't implement this interface!\n */\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface EndOfStreamError {\n companion object\n}\n\npublic inline val EndOfStreamError.Companion.NETWORK: EndOfStreamError\n\nget() = "network".asDynamic().unsafeCast<EndOfStreamError>()\n\npublic inline val EndOfStreamError.Companion.DECODE: EndOfStreamError\n\nget() = "decode".asDynamic().unsafeCast<EndOfStreamError>()\n\n/* please, don't implement this interface!\n */\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface AppendMode {\n companion object\n}\n\npublic inline val AppendMode.Companion.SEGMENTS: AppendMode\n\nget() = "segments".asDynamic().unsafeCast<AppendMode>()\n\npublic inline val AppendMode.Companion.SEQUENCE: AppendMode\n\nget() = "sequence".asDynamic().unsafeCast<AppendMode>())\n\n/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.pointerevents\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface PointerEventInit : MouseEventInit {\n var pointerId: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var width: Double? /* = 1.0 */\n get() = definedExternally\n set(value) = definedExternally\n var height: Double? /* = 1.0 */\n get() = definedExternally\n set(value) = definedExternally\n var pressure: Float? /* = 0f */\n get() = definedExternally\n set(value) = definedExternally\n var tangentialPressure: Float? /* = 0f */\n get() = definedExternally\n set(value) = definedExternally\n var tiltX: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var tiltY: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var twist: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var pointerType: String? /* = "" */\n get() = definedExternally\n set(value) = definedExternally\n var isPrimary: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun PointerEventInit(pointerId: Int? = 0,

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width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f, tangentialPressure: Float? = 0f, tiltX: Int? = 0,
tiltY: Int? = 0, twist: Int? = 0, pointerType: String? = "", isPrimary: Boolean? = false, screenX: Int? = 0, screenY:
Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? =
null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false,
metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn:
Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock:
Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol:
Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PointerEventInit {\n  val o =
js("{}")\n  o["pointerId"] = pointerId\n  o["width"] = width\n  o["height"] = height\n  o["pressure"] =
pressure\n  o["tangentialPressure"] = tangentialPressure\n  o["tiltX"] = tiltX\n  o["tiltY"] = tiltY\n
o["twist"] = twist\n  o["pointerType"] = pointerType\n  o["isPrimary"] = isPrimary\n  o["screenX"] =
screenX\n  o["screenY"] = screenY\n  o["clientX"] = clientX\n  o["clientY"] = clientY\n  o["button"] =
button\n  o["buttons"] = buttons\n  o["relatedTarget"] = relatedTarget\n  o["region"] = region\n
o["ctrlKey"] = ctrlKey\n  o["shiftKey"] = shiftKey\n  o["altKey"] = altKey\n  o["metaKey"] = metaKey\n
o["modifierAltGraph"] = modifierAltGraph\n  o["modifierCapsLock"] = modifierCapsLock\n
o["modifierFn"] = modifierFn\n  o["modifierFnLock"] = modifierFnLock\n  o["modifierHyper"] =
modifierHyper\n  o["modifierNumLock"] = modifierNumLock\n  o["modifierScrollLock"] =
modifierScrollLock\n  o["modifierSuper"] = modifierSuper\n  o["modifierSymbol"] = modifierSymbol\n
o["modifierSymbolLock"] = modifierSymbolLock\n  o["view"] = view\n  o["detail"] = detail\n
o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return
o}\n}\n\n/**\n * Exposes the JavaScript

```

```

[PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\n *\npublic external open
class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {\n  open val
pointerId: Int\n  open val width: Double\n  open val height: Double\n  open val pressure: Float\n  open val
tangentialPressure: Float\n  open val tiltX: Int\n  open val tiltY: Int\n  open val twist: Int\n  open val
pointerType: String\n  open val isPrimary: Boolean\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\n/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS
FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage
org.w3c.dom.svg\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.css.*\n\n/**\n * Exposes the JavaScript

```

```

[SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n *\npublic external
abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {\n
open val dataset: DOMStringMap\n  open val ownerSVGElement: SVGSVGElement?\n  open val
viewportElement: SVGElement?\n  open var tabIndex: Int\n  fun focus()\n  fun blur()\n\n  companion object
{\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external interface
SVGBoundingBoxOptions {\n  var fill: Boolean? /* = true */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var stroke: Boolean? /* = false */\n  get() = definedExternally\n  set(value) =

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definedExternally\n    var markers: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var clipped: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun SVGBoundingBoxOptions(fill:
Boolean? = true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false):
SVGBoundingBoxOptions {\n    val o = js(\"({})\")\n    o[\"fill\"] = fill\n    o[\"stroke\"] = stroke\n    o[\"markers\"]
= markers\n    o[\"clipped\"] = clipped\n    return o\n}\n\n/**\n * Exposes the JavaScript
[SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\n
*/\npublic external abstract class SVGGraphicsElement : SVGElement, SVGTests {\n    open val transform:
SVGAnimatedTransformList\n    fun getBBox(options: SVGBoundingBoxOptions = definedExternally):
DOMRect\n    fun getCTM(): DOMMatrix?\n    fun getScreenCTM(): DOMMatrix?\n\n    companion object {\n
val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin\n
*/\npublic external abstract class SVGGeometryElement : SVGGraphicsElement {\n    open val pathLength:
SVGAnimatedNumber\n    fun isPointInFill(point: DOMPoint): Boolean\n    fun isPointInStroke(point: DOMPoint):
Boolean\n    fun getTotalLength(): Float\n    fun getPointAtLength(distance: Float): DOMPoint\n\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\n
*/\npublic external
abstract class SVGNumber {\n    open var value: Float\n}\n\n/**\n * Exposes the JavaScript
[SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\n
*/\npublic external abstract
class SVGLength {\n    open val unitType: Short\n    open var value: Float\n    open var valueInSpecifiedUnits:
Float\n    open var valueAsString: String\n    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:
Float)\n    fun convertToSpecifiedUnits(unitType: Short)\n\n    companion object {\n        val
SVG_LENGTHTYPE_UNKNOWN: Short\n        val SVG_LENGTHTYPE_NUMBER: Short\n        val
SVG_LENGTHTYPE_PERCENTAGE: Short\n        val SVG_LENGTHTYPE_EMS: Short\n        val
SVG_LENGTHTYPE_EXS: Short\n        val SVG_LENGTHTYPE_PX: Short\n        val
SVG_LENGTHTYPE_CM: Short\n        val SVG_LENGTHTYPE_MM: Short\n        val
SVG_LENGTHTYPE_IN: Short\n        val SVG_LENGTHTYPE_PT: Short\n        val SVG_LENGTHTYPE_PC:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\n
*/\npublic external abstract
class SVGAngle {\n    open val unitType: Short\n    open var value: Float\n    open var valueInSpecifiedUnits:
Float\n    open var valueAsString: String\n    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:

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Float\n fun convertToSpecifiedUnits(unitType: Short)\n\n companion object {\n val
SVG_ANGLETYPE_UNKNOWN: Short\n val SVG_ANGLETYPE_UNSPECIFIED: Short\n val
SVG_ANGLETYPE_DEG: Short\n val SVG_ANGLETYPE_RAD: Short\n val
SVG_ANGLETYPE_GRAD: Short\n }\n\npublic external abstract class SVGNameList {\n open val length:
Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: dynamic): dynamic\n fun
insertItemBefore(newItem: dynamic, index: Int): dynamic\n fun replaceItem(newItem: dynamic, index: Int):
dynamic\n fun removeItem(index: Int): dynamic\n fun appendItem(newItem: dynamic): dynamic\n fun
getItem(index: Int): dynamic\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.get(index: Int):
dynamic = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.set(index: Int,
newItem: dynamic) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin\n *\npublic external
abstract class SVGNumberList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun
initialize(newItem: SVGNumber): SVGNumber\n fun insertItemBefore(newItem: SVGNumber, index: Int):
SVGNumber\n fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\n fun removeItem(index: Int):
SVGNumber\n fun appendItem(newItem: SVGNumber): SVGNumber\n fun getItem(index: Int):
SVGNumber\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.get(index:
Int): SVGNumber? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.set(index:
Int, newItem: SVGNumber) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin\n *\npublic external
abstract class SVGLengthList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun
initialize(newItem: SVGLength): SVGLength\n fun insertItemBefore(newItem: SVGLength, index: Int):
SVGLength\n fun replaceItem(newItem: SVGLength, index: Int): SVGLength\n fun removeItem(index: Int):
SVGLength\n fun appendItem(newItem: SVGLength): SVGLength\n fun getItem(index: Int):
SVGLength\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.get(index:
Int): SVGLength? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.set(index: Int,
newItem: SVGLength) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\n *\npublic external abstract class SVGAnimatedBoolean {\n open var baseVal: Boolean\n open val animVal:
Boolean\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to
Kotlin\n *\npublic external abstract class SVGAnimatedEnumeration {\n open var baseVal: Short\n open val
animVal: Short\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\n *\npublic external abstract class SVGAnimatedInteger {\n open var baseVal: Int\n open val animVal:
Int\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin\n *\npublic external abstract class SVGAnimatedNumber {\n open var baseVal: Float\n open val animVal:
Float\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\n *\npublic external abstract class SVGAnimatedLength {\n open val baseVal: SVGLength\n open val animVal:
SVGLength\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\n *\npublic

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external abstract class SVGAnimatedAngle {\n  open val baseVal: SVGAngle\n  open val animVal:
SVGAngle\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\n *\npublic
external abstract class SVGAnimatedString {\n  open var baseVal: String\n  open val animVal: String\n}\n\n/**\n
* Exposes the JavaScript [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect)
to Kotlin\n *\npublic external abstract class SVGAnimatedRect {\n  open val baseVal: DOMRect\n  open val
animVal: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\n
*\npublic external abstract class SVGAnimatedNumberList {\n  open val baseVal: SVGNumberList\n  open val
animVal: SVGNumberList\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\n
*\npublic external abstract class SVGAnimatedLengthList {\n  open val baseVal: SVGLengthList\n  open val
animVal: SVGLengthList\n}\n\n/**\n * Exposes the JavaScript
[SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin\n *\npublic external
abstract class SVGStringList {\n  open val length: Int\n  open val numberOfItems: Int\n  fun clear()\n  fun
initialize(newItem: String): String\n  fun insertItemBefore(newItem: String, index: Int): String\n  fun
replaceItem(newItem: String, index: Int): String\n  fun removeItem(index: Int): String\n  fun
appendItem(newItem: String): String\n  fun getItem(index: Int):
String\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.get(index:
Int): String? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.set(index: Int,
newItem: String) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\n
*\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface SVGUnitTypes
{\n  companion object {\n    val SVG_UNIT_TYPE_UNKNOWN: Short\n    val
SVG_UNIT_TYPE_USERSPACEONUSE: Short\n    val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGTests](https://developer.mozilla.org/en/docs/Web/API/SVGTests) to Kotlin\n *\npublic external interface
SVGTests {\n  val requiredExtensions: SVGStringList\n  val systemLanguage: SVGStringList\n}\n\npublic
external interface SVGFitToViewBox {\n  val viewBox: SVGAnimatedRect\n  val preserveAspectRatio:
SVGAnimatedPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript
[SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\n
*\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
SVGZoomAndPan {\n  var zoomAndPan: Short\n\n  companion object {\n    val
SVG_ZOOMANDPAN_UNKNOWN: Short\n    val SVG_ZOOMANDPAN_DISABLE: Short\n    val
SVG_ZOOMANDPAN_MAGNIFY: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin\n *\npublic
external interface SVGURIReference {\n  val href: SVGAnimatedString\n}\n\n/**\n * Exposes the JavaScript
[SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\n *\npublic
external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan,
WindowEventHandlers {\n  open val x: SVGAnimatedLength\n  open val y: SVGAnimatedLength\n  open val
width: SVGAnimatedLength\n  open val height: SVGAnimatedLength\n  open var currentScale: Float\n  open
val currentTranslate: DOMPointReadOnly\n  fun getIntersectionList(rect: DOMRectReadOnly, referenceElement:
SVGElement?): NodeList\n  fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?):
NodeList\n  fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean\n  fun
checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean\n  fun deselectAll()\n  fun
createSVGNumber(): SVGNumber\n  fun createSVGLength(): SVGLength\n  fun createSVGAngle():

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SVGAngle\n fun createSVGPoint(): DOMPoint\n fun createSVGMatrix(): DOMMatrix\n fun
createSVGRect(): DOMRect\n fun createSVGTransform(): SVGTransform\n fun
createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n fun
getElementById(elementId: String): Element\n fun suspendRedraw(maxWaitMilliseconds: Int): Int\n fun
unsuspendRedraw(suspendHandleID: Int)\n fun unsuspendRedrawAll()\n fun forceRedraw()\n\n companion
object {\n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE:
Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGGElement](https://developer.mozilla.org/en/docs/Web/API/SVGGElement) to Kotlin\n */\n\npublic external
abstract class SVGGElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
SVGUnknownElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin\n */\n\npublic
external abstract class SVGDefsElement : SVGGraphicsElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n}\n\n/**\n * Exposes the JavaScript

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[SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin\n *\npublic
external abstract class SVGDescElement : SVGElement {\n  companion object {\n    val ELEMENT_NODE:
Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE:
Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin\n
*\npublic external abstract class SVGMetadataElement : SVGElement {\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\n *\npublic
external abstract class SVGTitleElement : SVGElement {\n  companion object {\n    val ELEMENT_NODE:
Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE:
Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin\n *\npublic
external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\n  companion object
{\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n
    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\n *\npublic external
abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\n  open val x:
SVGAnimatedLength\n  open val y: SVGAnimatedLength\n  open val width: SVGAnimatedLength\n  open val
height: SVGAnimatedLength\n  open val instanceRoot: SVGElement?\n  open val animatedInstanceRoot:

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SVGElement? {\n\n companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external open class SVGUseElementShadowRoot : ShadowRoot {\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface SVGElementInstance {\n    val correspondingElement: SVGElement? get() = definedExternally\n    val correspondingUseElement: SVGUseElement? get() = definedExternally\n}\n\npublic external open class ShadowAnimation(source: dynamic, newTarget: dynamic) {\n    open val sourceAnimation: dynamic\n}\n\n/**\n * Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement) to Kotlin\n */\n\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface GetSVGDocument {\n    fun getSVGDocument(): Document\n}\n\n/**\n * Exposes the JavaScript [SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\n */\n\npublic external abstract class SVGStyleElement : SVGElement, LinkStyle {\n    open var type: String\n    open var media: String\n    open var title: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin\n */\n\npublic external

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abstract class SVGTransform {\n  open val type: Short\n  open val matrix: DOMMatrix\n  open val angle:
Float\n  fun setMatrix(matrix: DOMMatrixReadOnly)\n  fun setTranslate(tx: Float, ty: Float)\n  fun setScale(sx:
Float, sy: Float)\n  fun setRotate(angle: Float, cx: Float, cy: Float)\n  fun setSkewX(angle: Float)\n  fun
setSkewY(angle: Float)\n\n  companion object {\n    val SVG_TRANSFORM_UNKNOWN: Short\n    val
SVG_TRANSFORM_MATRIX: Short\n    val SVG_TRANSFORM_TRANSLATE: Short\n    val
SVG_TRANSFORM_SCALE: Short\n    val SVG_TRANSFORM_ROTATE: Short\n    val
SVG_TRANSFORM_SKEWX: Short\n    val SVG_TRANSFORM_SKEWY: Short\n  }\n\n  /**\n * Exposes
the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin\n
*/\npublic external abstract class SVGTransformList {\n  open val length: Int\n  open val numberOfItems: Int\n
fun clear()\n  fun initialize(newItem: SVGTransform): SVGTransform\n  fun insertItemBefore(newItem:
SVGTransform, index: Int): SVGTransform\n  fun replaceItem(newItem: SVGTransform, index: Int):
SVGTransform\n  fun removeItem(index: Int): SVGTransform\n  fun appendItem(newItem: SVGTransform):
SVGTransform\n  fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n  fun
consolidate(): SVGTransform?\n  fun getItem(index: Int):
SVGTransform\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.get(index:
Int): SVGTransform? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.set(index:
Int, newItem: SVGTransform) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to
Kotlin\n */\npublic external abstract class SVGAnimatedTransformList {\n  open val baseVal:
SVGTransformList\n  open val animVal: SVGTransformList\n}\n\n/**\n * Exposes the JavaScript
[SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin\n
*/\npublic external abstract class SVGPreserveAspectRatio {\n  open var align: Short\n  open var meetOrSlice:
Short\n\n  companion object {\n    val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\n    val
SVG_PRESERVEASPECTRATIO_NONE: Short\n    val SVG_PRESERVEASPECTRATIO_XMINYMIN:
Short\n    val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\n    val
SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\n    val
SVG_PRESERVEASPECTRATIO_XMINYMID: Short\n    val
SVG_PRESERVEASPECTRATIO_XMIDYMID: Short\n    val
SVG_PRESERVEASPECTRATIO_XMAXYMID: Short\n    val
SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\n    val
SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short\n    val
SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short\n    val SVG_MEETORSLICE_UNKNOWN: Short\n
val SVG_MEETORSLICE_MEET: Short\n    val SVG_MEETORSLICE_SLICE: Short\n  }\n}\n\n/**\n *
Exposes the JavaScript
[SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspect
Ratio) to Kotlin\n */\npublic external abstract class SVGAnimatedPreserveAspectRatio {\n  open val baseVal:
SVGPreserveAspectRatio\n  open val animVal: SVGPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript
[SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\n */\npublic
external abstract class SVGPathElement : SVGGeometryElement {\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin\n *\npublic
external abstract class SVGRectElement : SVGGeometryElement {\n    open val x: SVGAnimatedLength\n    open
val y: SVGAnimatedLength\n    open val width: SVGAnimatedLength\n    open val height: SVGAnimatedLength\n
    open val rx: SVGAnimatedLength\n    open val ry: SVGAnimatedLength\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin\n *\npublic
external abstract class SVGCircleElement : SVGGeometryElement {\n    open val cx: SVGAnimatedLength\n
    open val cy: SVGAnimatedLength\n    open val r: SVGAnimatedLength\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin\n *\npublic
external abstract class SVGEllipseElement : SVGGeometryElement {\n    open val cx: SVGAnimatedLength\n
    open val cy: SVGAnimatedLength\n    open val rx: SVGAnimatedLength\n    open val ry: SVGAnimatedLength\n
    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin\n *\npublic
external abstract class SVGLineElement : SVGGeometryElement {\n    open val x1: SVGAnimatedLength\n    open
val y1: SVGAnimatedLength\n    open val x2: SVGAnimatedLength\n    open val y2: SVGAnimatedLength\n\n
    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n

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    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin\n */\npublic
external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {\n    companion object {\n
    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin\n */\npublic
external interface SVGAnimatedPoints {\n    val points: SVGPointList\n    val animatedPoints:
SVGPointList\n}\n\npublic external abstract class SVGPointList {\n    open val length: Int\n    open val
numberOfItems: Int\n    fun clear()\n    fun initialize(newItem: DOMPoint): DOMPoint\n    fun
insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint\n    fun replaceItem(newItem: DOMPoint, index:
Int): DOMPoint\n    fun removeItem(index: Int): DOMPoint\n    fun appendItem(newItem: DOMPoint):
DOMPoint\n    fun getItem(index: Int): DOMPoint\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.get(index: Int):
DOMPoint? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.set(index: Int,
newItem: DOMPoint) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin\n
*/\npublic external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {\n
companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin\n
*/\npublic external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {\n
companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin\n

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*\npublic external abstract class SVGTextContentElement : SVGGraphicsElement {\n  open val textLength:
SVGAnimatedLength\n  open val lengthAdjust: SVGAnimatedEnumeration\n  fun getNumberOfChars(): Int\n  fun getComputedTextLength(): Float\n  fun getSubStringLength(charnum: Int, nchars: Int): Float\n  fun
getStartPositionOfChar(charnum: Int): DOMPoint\n  fun getEndPositionOfChar(charnum: Int): DOMPoint\n  fun
getExtentOfChar(charnum: Int): DOMRect\n  fun getRotationOfChar(charnum: Int): Float\n  fun
getCharNumAtPosition(point: DOMPoint): Int\n  fun selectSubString(charnum: Int, nchars: Int)\n\n  companion
object {\n    val LENGTHADJUST_UNKNOWN: Short\n    val LENGTHADJUST_SPACING: Short\n
val LENGTHADJUST_SPACINGANDGLYPHS: Short\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to
Kotlin\n */\npublic external abstract class SVGTextPositioningElement : SVGTextContentElement {\n  open val x:
SVGAnimatedLengthList\n  open val y: SVGAnimatedLengthList\n  open val dx: SVGAnimatedLengthList\n
open val dy: SVGAnimatedLengthList\n  open val rotate: SVGAnimatedNumberList\n\n  companion object {\n
val LENGTHADJUST_UNKNOWN: Short\n    val LENGTHADJUST_SPACING: Short\n    val
LENGTHADJUST_SPACINGANDGLYPHS: Short\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin\n */\npublic
external abstract class SVGTextElement : SVGTextPositioningElement {\n  companion object {\n    val
LENGTHADJUST_UNKNOWN: Short\n    val LENGTHADJUST_SPACING: Short\n    val
LENGTHADJUST_SPACINGANDGLYPHS: Short\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin\n */\npublic
external abstract class SVGTSpanElement : SVGTextPositioningElement {\n  companion object {\n    val
LENGTHADJUST_UNKNOWN: Short\n    val LENGTHADJUST_SPACING: Short\n    val

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LENGTHADJUST_SPACINGANDGLYPHS: Short\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin\n
*/\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\n    open
val startOffset: SVGAnimatedLength\n    open val method: SVGAnimatedEnumeration\n    open val spacing:
SVGAnimatedEnumeration\n\n    companion object {\n        val TEXTPATH_METHODTYPE_UNKNOWN:
Short\n        val TEXTPATH_METHODTYPE_ALIGN: Short\n        val
TEXTPATH_METHODTYPE_STRETCH: Short\n        val TEXTPATH_SPACINGTYPE_UNKNOWN: Short\n
        val TEXTPATH_SPACINGTYPE_AUTO: Short\n        val TEXTPATH_SPACINGTYPE_EXACT: Short\n
        val LENGTHADJUST_UNKNOWN: Short\n        val LENGTHADJUST_SPACING: Short\n        val
LENGTHADJUST_SPACINGANDGLYPHS: Short\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\n
*/\npublic external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference,
HTMLorSVGImageElement {\n    open val x: SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open
val width: SVGAnimatedLength\n    open val height: SVGAnimatedLength\n    open val preserveAspectRatio:
SVGAnimatedPreserveAspectRatio\n    open var crossOrigin: String?\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to
Kotlin\n
*/\npublic external abstract class SVGForeignObjectElement : SVGGraphicsElement {\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open val width: SVGAnimatedLength\n    open val
height: SVGAnimatedLength\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val

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PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGMarkerElement : SVGElement, SVGFitToViewBox {\n    open val refX: SVGAnimatedLength\n    open val
refY: SVGAnimatedLength\n    open val markerUnits: SVGAnimatedEnumeration\n    open val markerWidth:
SVGAnimatedLength\n    open val markerHeight: SVGAnimatedLength\n    open val orientType:
SVGAnimatedEnumeration\n    open val orientAngle: SVGAnimatedAngle\n    open var orient: String\n    fun
setOrientToAuto()\n    fun setOrientToAngle(angle: SVGAngle)\n\n    companion object {\n        val
SVG_MARKERUNITS_UNKNOWN: Short\n        val SVG_MARKERUNITS_USERSPACEONUSE: Short\n
        val SVG_MARKERUNITS_STROKewidth: Short\n        val SVG_MARKER_ORIENT_UNKNOWN: Short\n
        val SVG_MARKER_ORIENT_AUTO: Short\n        val SVG_MARKER_ORIENT_ANGLE: Short\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin\n
*\n\npublic external abstract class SVGSolidcolorElement : SVGElement {\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin\n
*\n\npublic external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {\n
    open val gradientUnits: SVGAnimatedEnumeration\n    open val gradientTransform: SVGAnimatedTransformList\n
    open val spreadMethod: SVGAnimatedEnumeration\n\n    companion object {\n        val
SVG_SPREADMETHOD_UNKNOWN: Short\n        val SVG_SPREADMETHOD_PAD: Short\n        val
SVG_SPREADMETHOD_REFLECT: Short\n        val SVG_SPREADMETHOD_REPEAT: Short\n        val
SVG_UNIT_TYPE_UNKNOWN: Short\n        val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val

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DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript [SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to Kotlin\n */\npublic external abstract class SVGLinearGradientElement : SVGGradientElement {\n open val x1: SVGAnimatedLength\n open val y1: SVGAnimatedLength\n open val x2: SVGAnimatedLength\n open val y2: SVGAnimatedLength\n\n companion object {\n val SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD: Short\n val SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val

DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript [SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to Kotlin\n */\npublic external abstract class SVGRadialGradientElement : SVGGradientElement {\n open val cx: SVGAnimatedLength\n open val cy: SVGAnimatedLength\n open val r: SVGAnimatedLength\n open val fx: SVGAnimatedLength\n open val fy: SVGAnimatedLength\n open val fr: SVGAnimatedLength\n\n companion object {\n val SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD: Short\n val SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val

DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\npublic external abstract class SVGMeshGradientElement : SVGGradientElement {\n companion object {\n val SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD: Short\n val SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val

DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n

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    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGMeshrowElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGMeshpatchElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin\n */\n\npublic
external abstract class SVGStopElement : SVGElement {\n    open val offset: SVGAnimatedNumber\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement) to Kotlin\n */\n\npublic
external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox, SVGURIReference,
SVGUnitTypes {\n    open val patternUnits: SVGAnimatedEnumeration\n    open val patternContentUnits:
SVGAnimatedEnumeration\n    open val patternTransform: SVGAnimatedTransformList\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open val width: SVGAnimatedLength\n    open val
height: SVGAnimatedLength\n\n    companion object {\n        val SVG_UNIT_TYPE_UNKNOWN: Short\n
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGHatchElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGHatchpathElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin\n */\n\npublic
external abstract class SVGCursorElement : SVGElement, SVGURIReference {\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin\n */\n\npublic
external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {\n
    open var type: String\n    open var crossOrigin: String?\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGAEElement](https://developer.mozilla.org/en/docs/Web/API/SVGAEElement) to Kotlin\n */\n\npublic external
abstract class SVGAEElement : SVGGraphicsElement, SVGURIReference {\n    open val target:

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SVGAnimatedString\n open val download: SVGAnimatedString\n open val rel: SVGAnimatedString\n open
val relList: SVGAnimatedString\n open val hreflang: SVGAnimatedString\n open val type:
SVGAnimatedString\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin\n *\npublic
external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {\n companion
object {\n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE:
Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}"/\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.files\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport
org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript [Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to
Kotlin\n *\npublic external open class Blob(blobParts: Array<dynamic> = definedExternally, options:
BlobPropertyBag = definedExternally) : MediaProvider, ImageBitmapSource {\n open val size: Number\n open
val type: String\n open val isClosed: Boolean\n fun slice(start: Int = definedExternally, end: Int =
definedExternally, contentType: String = definedExternally): Blob\n fun close()\n}\n\npublic external interface
BlobPropertyBag {\n var type: String? /* = "" */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\npublic inline fun BlobPropertyBag(type: String? = ""):
BlobPropertyBag {\n val o = js("{}")\n o["type"] = type\n return o\n}\n\n/**\n * Exposes the JavaScript
[File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin\n *\npublic external open class File(fileBits:
Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {\n open val name:
String\n open val lastModified: Int\n}\n\npublic external interface FilePropertyBag : BlobPropertyBag {\n var
lastModified: Int?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\npublic inline fun FilePropertyBag(lastModified: Int? =
undefined, type: String? = ""): FilePropertyBag {\n val o = js("{}")\n o["lastModified"] = lastModified\n
o["type"] = type\n return o\n}\n\n/**\n * Exposes the JavaScript
[FileList](https://developer.mozilla.org/en/docs/Web/API/FileList) to Kotlin\n *\npublic external abstract class
FileList : ItemArrayLike<File> {\n override fun item(index: Int):

```

```

File?n}n}n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")n@kotlin.internal.InlineOnlynpublic inline operator fun FileList.get(index: Int): File?
= asDynamic()[index]n/n/*n * Exposes the JavaScript
[FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlinn */npublic external open class
FileReader : EventTarget {n open val readyState: Shortn open val result: dynamicn open val error:
dynamicn var onloadstart: ((ProgressEvent) -> dynamic)?n var onprogress: ((ProgressEvent) -> dynamic)?n
var onload: ((Event) -> dynamic)?n var onabort: ((Event) -> dynamic)?n var onerror: ((Event) -> dynamic)?n
var onloadend: ((Event) -> dynamic)?n fun readAsArrayBuffer(blob: Blob)n fun readAsBinaryString(blob:
Blob)n fun readAsText(blob: Blob, label: String = definedExternally)n fun readAsDataURL(blob: Blob)n
fun abort()\n\n companion object {n val EMPTY: Shortn val LOADING: Shortn val DONE:
Shortn }n}n/n/*n * Exposes the JavaScript
[FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlinn */npublic external
open class FileReaderSync {n fun readAsArrayBuffer(blob: Blob): ArrayBuffern fun readAsBinaryString(blob:
Blob): Stringn fun readAsText(blob: Blob, label: String = definedExternally): Stringn fun
readAsDataURL(blob: Blob): Stringn}n,"/*n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.n */n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.notifications\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.events.*\nimport org.w3c.workers.*n/n/*n * Exposes the JavaScript
[Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlinn */npublic external open
class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {n var onclick:
((MouseEvent) -> dynamic)?n var onerror: ((Event) -> dynamic)?n open val title: Stringn open val dir:
NotificationDirectionn open val lang: Stringn open val body: Stringn open val tag: Stringn open val
image: Stringn open val icon: Stringn open val badge: Stringn open val sound: Stringn open val vibrate:
Array<out Int>n open val timestamp: Numbern open val renotify: Booleann open val silent: Booleann
open val noscreen: Booleann open val requireInteraction: Booleann open val sticky: Booleann open val data:
Any?n open val actions: Array<out NotificationAction>n fun close()\n\n companion object {n val
permission: NotificationPermissionn val maxActions: Intn fun requestPermission(deprecatedCallback:
(NotificationPermission) -> Unit = definedExternally): Promise<NotificationPermission>n }n}n\n\npublic
external interface NotificationOptions {n var dir: NotificationDirection? /* = NotificationDirection.AUTO */n
get() = definedExternallyn set(value) = definedExternallyn var lang: String? /* = "" */n get() =
definedExternallyn set(value) = definedExternallyn var body: String? /* = "" */n get() =
definedExternallyn set(value) = definedExternallyn var tag: String? /* = "" */n get() =
definedExternallyn set(value) = definedExternallyn var image: String?n get() = definedExternallyn
set(value) = definedExternallyn var icon: String?n get() = definedExternallyn set(value) =
definedExternallyn var badge: String?n get() = definedExternallyn set(value) = definedExternallyn
var sound: String?n get() = definedExternallyn set(value) = definedExternallyn var vibrate: dynamicn
get() = definedExternallyn set(value) = definedExternallyn var timestamp: Number?n get() =
definedExternallyn set(value) = definedExternallyn var renotify: Boolean? /* = false */n get() =
definedExternallyn set(value) = definedExternallyn var silent: Boolean? /* = false */n get() =
definedExternallyn set(value) = definedExternallyn var noscreen: Boolean? /* = false */n get() =
definedExternallyn set(value) = definedExternallyn var requireInteraction: Boolean? /* = false */n get()
= definedExternallyn set(value) = definedExternallyn var sticky: Boolean? /* = false */n get() =
definedExternallyn set(value) = definedExternallyn var data: Any? /* = null */n get() =
definedExternallyn set(value) = definedExternallyn var actions: Array<NotificationAction>? /* = arrayOf()
*/n get() = definedExternallyn set(value) =
definedExternallyn}n}n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")n@kotlin.internal.InlineOnlynpublic inline fun NotificationOptions(dir:

```



```

found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.workers\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.fetch.*\nimport
org.w3c.notifications.*\n\n/**\n * Exposes the JavaScript
[ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\n *\n\npublic external
abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker,
UnionClientOrMessagePortOrServiceWorker {\n    open val scriptURL: String\n    open val state:
ServiceWorkerState\n    open var onstatechange: ((Event) -> dynamic)?\n    fun postMessage(message: Any?,
transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to
Kotlin\n *\n\npublic external abstract class ServiceWorkerRegistration : EventTarget {\n    open val installing:
ServiceWorker?\n    open val waiting: ServiceWorker?\n    open val active: ServiceWorker?\n    open val scope:
String\n    open var onupdatefound: ((Event) -> dynamic)?\n    open val APISpace: dynamic\n    fun update():
Promise<Unit>\n    fun unregister(): Promise<Boolean>\n    fun showNotification(title: String, options:
NotificationOptions = definedExternally): Promise<Unit>\n    fun getNotifications(filter: GetNotificationOptions =
definedExternally): Promise<Array<Notification>>\n    fun methodName(): Promise<dynamic>\n}\n\n/**\n *
Exposes the JavaScript
[ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin\n
*\n\npublic external abstract class ServiceWorkerContainer : EventTarget {\n    open val controller:
ServiceWorker?\n    open val ready: Promise<ServiceWorkerRegistration>\n    open var oncontrollerchange:
((Event) -> dynamic)?\n    open var onmessage: ((MessageEvent) -> dynamic)?\n    fun register(scriptURL: String,
options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\n    fun
getRegistration(clientURL: String = definedExternally): Promise<Any?>\n    fun getRegistrations():
Promise<Array<ServiceWorkerRegistration>>\n    fun startMessages()\n}\n\n\npublic external interface
RegistrationOptions {\n    var scope: String?\n    get() = definedExternally\n    set(value) = definedExternally\n
var type: WorkerType? /* = WorkerType.CLASSIC *\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun RegistrationOptions(scope: String? =
undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {\n    val o = js("{}")\n    o["scope"] = scope\n    o["type"] = type\n    return o\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to
Kotlin\n *\n\npublic external open class ServiceWorkerMessageEvent(type: String, eventInitDict:
ServiceWorkerMessageEventInit = definedExternally) : Event {\n    open val data: Any?\n    open val origin:
String\n    open val lastEventId: String\n    open val source: UnionMessagePortOrServiceWorker?\n    open val
ports: Array<out MessagePort>?\n\n    companion object {\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\n\npublic external interface ServiceWorkerMessageEventInit : EventInit {\n    var data: Any?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var origin: String?\n    get() = definedExternally\n
set(value) = definedExternally\n    var lastEventId: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var source: UnionMessagePortOrServiceWorker?\n    get() = definedExternally\n
set(value) = definedExternally\n    var ports: Array<MessagePort>?\n    get() = definedExternally\n    set(value)
= definedExternally\n}\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ServiceWorkerMessageEventInit(data:
Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\n    val o =
js("{}")\n    o["data"] = data\n    o["origin"] = origin\n    o["lastEventId"] = lastEventId\n    o["source"] =
source\n    o["ports"] = ports\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] =

```

```

composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to
Kotlin\n */\npublic external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\n    open val clients:
Clients\n    open val registration: ServiceWorkerRegistration\n    open var oninstall: ((Event) -> dynamic)?\n    open
var onactivate: ((Event) -> dynamic)?\n    open var onfetch: ((FetchEvent) -> dynamic)?\n    open var
onforeignfetch: ((Event) -> dynamic)?\n    open var onmessage: ((MessageEvent) -> dynamic)?\n    open var
onnotificationclick: ((NotificationEvent) -> dynamic)?\n    open var onnotificationclose: ((NotificationEvent) ->
dynamic)?\n    open var onfunctionalevent: ((Event) -> dynamic)?\n    fun skipWaiting():
Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\n */\npublic external abstract class Client :
UnionClientOrMessagePortOrServiceWorker {\n    open val url: String\n    open val frameType: FrameType\n
open val id: String\n    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n
* Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to
Kotlin\n */\npublic external abstract class WindowClient : Client {\n    open val visibilityState: dynamic\n    open
val focused: Boolean\n    fun focus(): Promise<WindowClient>\n    fun navigate(url: String):
Promise<WindowClient>\n}\n\n/**\n * Exposes the JavaScript
[Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin\n */\npublic external abstract class
Clients {\n    fun get(id: String): Promise<Any?>\n    fun matchAll(options: ClientQueryOptions =
definedExternally): Promise<Array<Client>>\n    fun openWindow(url: String): Promise<WindowClient?>\n    fun
claim(): Promise<Unit>\n}\n\npublic external interface ClientQueryOptions {\n    var includeUncontrolled:
Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var type:
ClientType? /* = ClientType.WINDOW */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW):
ClientQueryOptions {\n    val o = js(\"({})\")\n    o[\"includeUncontrolled\"] = includeUncontrolled\n    o[\"type\"] =
type\n    return o\n}\n\n/**\n * Exposes the JavaScript
[ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin\n */\npublic external
open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : Event {\n    fun
waitUntil(f: Promise<Any?>)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE:
Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface
ExtendableEventInit : EventInit\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableEventInit(bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableEventInit {\n    val o =
js(\"({})\")\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n
return o\n}\n\n/**\n * Exposes the JavaScript
[InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin\n */\npublic external open
class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {\n    fun
registerForeignFetch(options: ForeignFetchOptions)\n\n    companion object {\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ForeignFetchOptions {\n    var scopes: Array<String>?\n    var origins:
Array<String>?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchOptions(scopes:
Array<String>?, origins: Array<String>?): ForeignFetchOptions {\n    val o = js(\"({})\")\n    o[\"scopes\"] =
scopes\n    o[\"origins\"] = origins\n    return o\n}\n\n/**\n * Exposes the JavaScript
[FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin\n */\npublic external open class
FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {\n    open val request: Request\n    open
val clientId: String?\n    open val isReload: Boolean\n    fun respondWith(r: Promise<Response>)\n\n    companion

```

```

object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external interface FetchEventInit : ExtendableEventInit {
    var request: Request?
    var clientId: String? /* = null */
    get() = definedExternally
    set(value) = definedExternally
    var isReload: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun FetchEventInit(request: Request?, clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): FetchEventInit {
    val o = js("{}")
    o["request"] = request
    o["clientId"] = clientId
    o["isReload"] = isReload
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external open class ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {
    open val request: Request
    open val origin: String
    fun respondWith(r: Promise<ForeignFetchResponse>)
}

companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external interface ForeignFetchEventInit : ExtendableEventInit {
    var request: Request?
    var origin: String? /* = "null" */
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun ForeignFetchEventInit(request: Request?, origin: String? = "null", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ForeignFetchEventInit {
    val o = js("{}")
    o["request"] = request
    o["origin"] = origin
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external interface ForeignFetchResponse {
    var response: Response?
    var origin: String?
    get() = definedExternally
    set(value) = definedExternally
    var headers: Array<String>?
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun ForeignFetchResponse(response: Response?, origin: String? = undefined, headers: Array<String>? = undefined): ForeignFetchResponse {
    val o = js("{}")
    o["response"] = response
    o["origin"] = origin
    o["headers"] = headers
    return o
}

/** Exposes the JavaScript [ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin */
public external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit = definedExternally) : ExtendableEvent {
    open val data: Any?
    open val origin: String
    open val lastEventId: String
    open val source: UnionClientOrMessagePortOrServiceWorker?
    open val ports: Array<out MessagePort>
}

companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external interface ExtendableMessageEventInit : ExtendableEventInit {
    var data: Any?
    get() = definedExternally
    set(value) = definedExternally
    var origin: String?
    get() = definedExternally
    set(value) = definedExternally
    var lastEventId: String?
    get() = definedExternally
    set(value) = definedExternally
    var source: UnionClientOrMessagePortOrServiceWorker?
    get() = definedExternally
    set(value) = definedExternally
    var ports: Array<MessagePort>?
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun ExtendableMessageEventInit(data: Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source: UnionClientOrMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableMessageEventInit {
    val o = js("{}")
    o["data"] = data
    o["origin"] = origin
    o["lastEventId"] = lastEventId
    o["source"] = source
    o["ports"] = ports
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/** Exposes the JavaScript [Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin */
public external abstract class Cache {
    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>
}

```

```

matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally):
Promise<Array<Response>>\n fun add(request: dynamic): Promise<Unit>\n fun addAll(requests:
Array<dynamic>): Promise<Unit>\n fun put(request: dynamic, response: Response): Promise<Unit>\n fun
delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>\n fun
keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally):
Promise<Array<Request>>\n}\n\npublic external interface CacheQueryOptions {\n var ignoreSearch: Boolean? /*
= false */\n get() = definedExternally\n set(value) = definedExternally\n var ignoreMethod: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var ignoreVary: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var cacheName: String?\n
get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CacheQueryOptions(ignoreSearch:
Boolean? = false, ignoreMethod: Boolean? = false, ignoreVary: Boolean? = false, cacheName: String? = undefined):
CacheQueryOptions {\n val o = js(\"({})\")\n o[\"ignoreSearch\"] = ignoreSearch\n o[\"ignoreMethod\"] =
ignoreMethod\n o[\"ignoreVary\"] = ignoreVary\n o[\"cacheName\"] = cacheName\n return o\n}\n\npublic
external interface CacheBatchOperation {\n var type: String?\n get() = definedExternally\n set(value) =
definedExternally\n var request: Request?\n get() = definedExternally\n set(value) = definedExternally\n
var response: Response?\n get() = definedExternally\n set(value) = definedExternally\n var options:
CacheQueryOptions?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CacheBatchOperation(type: String? =
undefined, request: Request? = undefined, response: Response? = undefined, options: CacheQueryOptions? =
undefined): CacheBatchOperation {\n val o = js(\"({})\")\n o[\"type\"] = type\n o[\"request\"] = request\n
o[\"response\"] = response\n o[\"options\"] = options\n return o\n}\n\n/*\n * Exposes the JavaScript
[CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin\n */\npublic external
abstract class CacheStorage {\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally):
Promise<Any?>\n fun has(cacheName: String): Promise<Boolean>\n fun open(cacheName: String):
Promise<Cache>\n fun delete(cacheName: String): Promise<Boolean>\n fun keys():
Promise<Array<String>>}\n}\n\npublic external open class FunctionalEvent : ExtendableEvent {\n companion
object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface UnionMessagePortOrServiceWorker\n\npublic
external interface UnionClientOrMessagePortOrServiceWorker\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ServiceWorkerState {\n companion object\n}\n\npublic inline val
ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() =
\"installing\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() =
\"installed\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() =
\"activating\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() =
\"activated\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() =
\"redundant\".asDynamic().unsafeCast<ServiceWorkerState>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface FrameType {\n companion object\n}\n\npublic inline val FrameType.Companion.AUXILIARY:
FrameType get() = \"auxiliary\".asDynamic().unsafeCast<FrameType>()\n\npublic inline val
FrameType.Companion.TOP_LEVEL: FrameType get() = \"top-
level\".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NESTED: FrameType

```



```

get() = \"nested\".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NONE:
FrameType get() = \"none\".asDynamic().unsafeCast<FrameType>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ClientType {\n    companion object\n}\n\npublic inline val ClientType.Companion.WINDOW: ClientType
get() = \"window\".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.WORKER:
ClientType get() = \"worker\".asDynamic().unsafeCast<ClientType>()\n\npublic inline val
ClientType.Companion.SHAREDWORKER: ClientType get() =
\"sharedworker\".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.ALL:
ClientType get() = \"all\".asDynamic().unsafeCast<ClientType>()\", /*\n\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.xhr\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.files.*\n\n/**\n *
Exposes the JavaScript
[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to
Kotlin\n\n */\n\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\n    open var onloadstart:
((ProgressEvent) -> dynamic)?\n    open var onprogress: ((ProgressEvent) -> dynamic)?\n    open var onabort:
((Event) -> dynamic)?\n    open var onerror: ((Event) -> dynamic)?\n    open var onload: ((Event) -> dynamic)?\n
open var ontimeout: ((Event) -> dynamic)?\n    open var onloadend: ((Event) -> dynamic)?\n}\n\npublic external
abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget\n\n/**\n * Exposes the JavaScript
[XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\n\n */\n\npublic
external open class XMLHttpRequest : XMLHttpRequestEventTarget {\n    var onreadystatechange: ((Event) ->
dynamic)?\n    open val readyState: Short\n    var timeout: Int\n    var withCredentials: Boolean\n    open val upload:
XMLHttpRequestUpload\n    open val responseURL: String\n    open val status: Short\n    open val statusText:
String\n    var responseType: XMLHttpRequestResponseType\n    open val response: Any?\n    open val
responseText: String\n    open val responseXML: Document?\n    fun open(method: String, url: String)\n    fun
open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? =
definedExternally)\n    fun setRequestHeader(name: String, value: String)\n    fun send(body: dynamic =
definedExternally)\n    fun abort()\n    fun getResponseHeader(name: String): String?\n    fun
getAllResponseHeaders(): String\n    fun overrideMimeType(mime: String)\n\n    companion object {\n        val
UNSENT: Short\n        val OPENED: Short\n        val HEADERS_RECEIVED: Short\n        val LOADING:
Short\n        val DONE: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\n\n */\n\npublic external open class
FormData(form: HTMLFormElement = definedExternally) {\n    fun append(name: String, value: String)\n    fun
append(name: String, value: Blob, filename: String = definedExternally)\n    fun delete(name: String)\n    fun
get(name: String): dynamic\n    fun getAll(name: String): Array<dynamic>\n    fun has(name: String): Boolean\n
fun set(name: String, value: String)\n    fun set(name: String, value: Blob, filename: String =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin\n\n */\n\npublic external open
class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {\n    open val
lengthComputable: Boolean\n    open val loaded: Number\n    open val total: Number\n\n    companion object {\n
        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ProgressEventInit : EventInit {\n    var
lengthComputable: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n
var loaded: Number? /* = 0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var total:
Number? /* = 0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ProgressEventInit(lengthComputable:

```

```

Boolean? = false, loaded: Number? = 0, total: Number? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): ProgressEventInit {
    val o = js("{}")
    o["lengthComputable"] =
lengthComputable
    o["loaded"] = loaded
    o["total"] = total
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/* please, don't implement this
interface! */
@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public
external interface XMLHttpRequestResponseType {
    companion object
}

public inline val
XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() =
"".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val
XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() =
"arraybuffer".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val
XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() =
"blob".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val
XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() =
"document".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val
XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() =
"json".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val
XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() =
"text".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

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that can be found in the license/LICENSE.txt file.
*/
package kotlin
import
kotlin.annotation.AnnotationRetention.BINARY
import kotlin.annotation.AnnotationRetention.SOURCE
import
kotlin.annotation.AnnotationTarget.*
import kotlin.internal.RequireKotlin
import
kotlin.internal.RequireKotlinVersionKind
import kotlin.reflect.KClass

/**
 * Signals that the annotated
annotation class is a marker of an experimental API.
 *
 * Any declaration annotated with that marker is
considered an experimental declaration
 *
 * and its call sites should accept the experimental aspect of it either by
using [UseExperimental],
 *
 * or by being annotated with that marker themselves, effectively causing further
propagation of that experimental aspect.
 *
 * This class is deprecated in favor of a more general approach
provided by [RequiresOptIn]/[OptIn].
 */
@Target(ANNOTATION_CLASS)
@Retention(BINARY)
@SinceKotlin("1.2")
@RequireKotlin("1.2.50")
@Deprecated("Please use RequiresOptIn
instead.")
public annotation class Experimental(val level: Level = Level.ERROR) {
    /**
     * Severity of the
diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental
aspect
     *
     * of that API either by using [UseExperimental] or by being annotated with the corresponding marker
annotation.
     */
    public enum class Level {
        /**
         * Specifies that a warning should be reported on incorrect
usages of this experimental API.
         */
        WARNING,
        /**
         * Specifies that an error should be reported on
incorrect usages of this experimental API.
         */
        ERROR,
    }
}

/**
 * Allows to use experimental API
denoted by the given markers in the annotated file, declaration, or expression.
 *
 * If a declaration is annotated with
[UseExperimental], its usages are **not** required to opt-in to that experimental API.
 *
 * This class is
deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].
 */
@Target(CLASS,
PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION,
PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,
TYPEALIAS)
@Retention(SOURCE)
@SinceKotlin("1.2")
@RequireKotlin("1.2.50")
@Deprecated("Please use OptIn instead.",
ReplaceWith("OptIn(*markerClass)", "kotlin.OptIn"))
public annotation class UseExperimental(
    vararg val
markerClass: KClass<out Annotation>
)

@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,
TYPEALIAS)
@Retention(BINARY)
internal annotation class WasExperimental(
    vararg val
markerClass:
KClass<out Annotation>
)

/*
 * This
annotation marks the standard library API that is considered experimental and is not subject to the
 *
 * [general

```

compatibility guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the standard library:

- the behavior of such API may be changed or the API may be removed completely in any further release.
- Beware using the annotated API especially if you're developing a library, since your library might become binary incompatible with the future versions of the standard library.
- Any usage of a declaration annotated with `@ExperimentalStdlibApi` must be accepted either by annotating that usage with the `[OptIn]` annotation, e.g. `@OptIn(ExperimentalStdlibApi::class)` or by using the compiler argument `-Xopt-in=kotlin.ExperimentalStdlibApi`.
- Use `@Suppress("DEPRECATION")@Experimental(level = Experimental.Level.ERROR)@RequiresOptIn(level = RequiresOptIn.Level.ERROR)` to retain `AnnotationRetention.BINARY` at `CLASS`, `ANNOTATION_CLASS`, `PROPERTY`, `FIELD`, `LOCAL_VARIABLE`, `VALUE_PARAMETER`, `CONSTRUCTOR`, `FUNCTION`, `PROPERTY_GETTER`, `PROPERTY_SETTER`, `TYPEALIAS`.
- Since Kotlin 1.3, `public annotation class ExperimentalStdlibApi` is available.
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```

package kotlin.nimpor kotlin.annotation.AnnotationTarget.*nimpor
kotlin.experimental.ExperimentalTypeInference

/**
 * Allows to infer generic type arguments of a function
 * from the calls in the annotated function parameter of that function.
 * When this annotation is placed on a generic function parameter of a function,
 * it enables to infer the type arguments of that generic function from the
 * lambda body passed to that parameter.
 * The calls that affect inference are either members of the receiver type
 * of an annotated function parameter or extensions for that type. The extensions must be themselves annotated
 * with @BuilderInference.
 * Example: we declare
 * fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>().-> Unit): Sequence<T>
 * and use it like
 * val result = sequence {
 *     yield("result")
 * }
 * Here the type argument of the resulting sequence is inferred to `String` from
 * the argument of the [SequenceScope.yield] function, that is called inside the lambda passed to [sequence].
 * Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.
 */
@Target(VALUE_PARAMETER, FUNCTION, PROPERTY)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.3")
@ExperimentalTypeInference
public annotation class BuilderInference

/**
 * Enables overload selection based on the type of the value
 * returned from lambda argument.
 * When two or more function overloads have otherwise the same parameter
 * lists that differ only in the return type of a functional parameter, this annotation enables overload selection by the
 * type of the value returned from the lambda function passed to this functional parameter.
 * Example:
 * @OverloadResolutionByLambdaReturnType
 * fun create(intProducer: () -> Int): Int
 * fun create(doubleProducer: () -> Double): Double
 * val newValue = create { 3.14 }
 * The annotation being applied to one of overloads allows to resolve this ambiguity by analyzing what value is returned
 * from the lambda function.
 * This annotation is also used to discriminate the annotated overloads in case if overload
 * selection still cannot choose one of them even taking in account the result of lambda parameter analysis. In that
 * case a warning is reported.
 * Note: this annotation is experimental, see [ExperimentalTypeInference] on how
 * to opt-in for it.
 */
@Target(FUNCTION)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.4")
@ExperimentalTypeInference
public annotation class OverloadResolutionByLambdaReturnType

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 */
package kotlin.nimpor
kotlin.annotation.AnnotationTarget.*nimpor
kotlin.internal.RequireKotlin.nimpor
kotlin.internal.RequireKotlinVersionKind

/**
 * The experimental multiplatform support API marker.
 * Any usage of a declaration annotated with @ExperimentalMultiplatform must be accepted either by
 * annotating that usage with the [OptIn] annotation, e.g. @OptIn(ExperimentalMultiplatform::class)
 * or by using the compiler argument -Xopt-in=kotlin.ExperimentalMultiplatform.
 */
@Suppress("DEPRECATION")
@Experimental
@RequiresOptIn
@MustBeDocumente
@Target(

```

```

CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n
VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n
PROPERTY_SETTER,\n
TYPEALIAS\n)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class ExperimentalMultiplatform\n\n/**\n * Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.\n * This
annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as
`optional`.\n * Optional expected class is allowed to have no corresponding actual class on the platform. Optional
annotations can only be used\n * to annotate something, not as types in signatures. If an optional annotation has no
corresponding actual class on a platform,\n * the annotation entries where it's used are simply erased when
compiling code on that platform.\n * Note: this annotation is experimental, see [ExperimentalMultiplatform] on
how to opt-in for it.\n
*\n@Target(ANNOTATION_CLASS)\n@Retention(AnnotationRetention.BINARY)\n@ExperimentalMultiplatfor
m\n@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic
annotation class OptionalExpectation\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport
kotlin.annotation.AnnotationTarget\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated
annotation class is a marker of an API that requires an explicit opt-in.\n * Call sites of any declaration annotated
with that marker should opt in to the API either by using [OptIn],\n * or by being annotated with that marker
themselves, effectively causing further propagation of the opt-in requirement.\n * This class requires opt-in itself
and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.\n * @property message
message to be reported on usages of API without an explicit opt-in, or empty string for the default message.\n *
The default message is: `This declaration is experimental and its usage should be marked with 'Marker`\n *
or '@OptIn(Marker::class)`, where `Marker` is the opt-in requirement marker.\n * @property level specifies
how usages of API without an explicit opt-in are reported in code.\n
*\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.3")\n@RequireKotlin("1.3.70
", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class RequiresOptIn(\n
val message: String = "",\n val level: Level = Level.ERROR)\n {\n /**\n * Severity of the diagnostic that
should be reported on usages which did not explicitly opt into\n * the API either by using [OptIn] or by being
annotated with the corresponding marker annotation.\n */\n public enum class Level {\n /** Specifies that a
warning should be reported on incorrect usages of this API. */\n WARNING,\n /** Specifies that an error
should be reported on incorrect usages of this API. */\n ERROR,\n }\n\n /**\n * Allows to use the API
denoted by the given markers in the annotated file, declaration, or expression.\n * If a declaration is annotated with
[OptIn], its usages are not required to opt in to that API.\n * This class requires opt-in itself and can only be
used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.\n */\n @Target(\n CLASS, PROPERTY,
LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER,
PROPERTY_SETTER, EXPRESSION, FILE,
TYPEALIAS\n)\n@Retention(SOURCE)\n@SinceKotlin("1.3")\n@RequireKotlin("1.3.70", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class OptIn(\n vararg val markerClass:
KClass<out Annotation>\n)\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport kotlin.js.JsName\n\n/**\n * Provides a skeletal
implementation of the read-only [Collection] interface.\n */\n @param E the type of elements contained in the
collection. The collection is covariant in its element type.\n */\n @SinceKotlin("1.1")\npublic abstract class
AbstractCollection<out E> protected constructor() : Collection<E> {\n abstract override val size: Int\n abstract

```



```

var index = 0\n\n    override fun hasNext(): Boolean = index < size\n\n    override fun next(): E {\n        if
(!hasNext()) throw NoSuchElementException()\n        return get(index++)\n    }\n\n    /**\n     *
Implementation of [ListIterator] for abstract lists.\n     */\n    private open inner class ListIteratorImpl(index: Int) :
IteratorImpl(), ListIterator<E> {\n\n        init {\n            checkPositionIndex(index, this@AbstractList.size)\n
this.index = index\n        }\n\n        override fun hasPrevious(): Boolean = index > 0\n\n        override fun
nextIndex(): Int = index\n\n        override fun previous(): E {\n            if (!hasPrevious()) throw
NoSuchElementException()\n            return get(--index)\n        }\n\n        override fun previousIndex(): Int = index -
1\n    }\n\n    internal companion object {\n        internal fun checkElementIndex(index: Int, size: Int) {\n            if
(index < 0 || index >= size) {\n                throw IndexOutOfBoundsException("index: $index, size: $size")\n
            }\n\n            internal fun checkPositionIndex(index: Int, size: Int) {\n                if (index < 0 || index > size) {\n
                    throw IndexOutOfBoundsException("index: $index, size: $size")\n                }\n            }\n\n            internal fun
checkRangeIndexes(fromIndex: Int, toIndex: Int, size: Int) {\n                if (fromIndex < 0 || toIndex > size) {\n
                    throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex, size: $size")\n                }\n
            }\n\n            if (fromIndex > toIndex) {\n                throw IllegalArgumentException("fromIndex: $fromIndex > toIndex:
$toIndex")\n            }\n\n            internal fun checkBoundsIndexes(startIndex: Int, endIndex: Int, size: Int) {\n
                if (startIndex < 0 || endIndex > size) {\n                    throw IndexOutOfBoundsException("startIndex:
$startIndex, endIndex: $endIndex, size: $size")\n                }\n                if (startIndex > endIndex) {\n                    throw
IllegalArgumentException("startIndex: $startIndex > endIndex: $endIndex")\n                }\n            }\n\n            internal
fun orderedHashCode(c: Collection<*>): Int {\n                var hashCode = 1\n                for (e in c) {\n
                    hashCode = 31 * hashCode + (e?.hashCode() ?: 0)\n                }\n                return hashCode\n            }\n\n            internal fun
orderedEquals(c: Collection<*>, other: Collection<*>): Boolean {\n                if (c.size != other.size) return false\n\n
                val otherIterator = other.iterator()\n                for (elem in c) {\n                    val elemOther = otherIterator.next()\n
                    if (elem != elemOther) {\n                        return false\n                    }\n                }\n                return true\n            }\n
        }\n    }\n\n    /**\n     * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n     */\n\n    *
Based on GWT AbstractMap\n    * Copyright 2007 Google Inc.\n    */\n\n    package kotlin.collections\n\n    /**\n     * Provides
a skeletal implementation of the read-only [Map] interface.\n     */\n\n    * The implementor is required to implement
[entries] property, which should return read-only set of map entries.\n     */\n\n    * @param K the type of map keys. The
map is invariant in its key type.\n     */\n\n    * @param V the type of map values. The map is covariant in its value type.\n
     */\n\n    @SinceKotlin("1.1")\n    public abstract class AbstractMap<K, out V> protected constructor() : Map<K, V>
{\n\n        override fun containsKey(key: K): Boolean {\n            return implFindEntry(key) != null\n        }\n\n        override
fun containsValue(value: @UnsafeVariance V): Boolean = entries.any { it.value == value }\n\n        internal fun
containsEntry(entry: Map.Entry<*, *>?): Boolean {\n            // since entry comes from @UnsafeVariance parameters it
can be virtually anything\n            if (entry !is Map.Entry<*, *>) return false\n            val key = entry.key\n            val value
= entry.value\n            val ourValue = get(key)\n\n            if (value != ourValue) {\n                return false\n            }\n\n            //
Perhaps it was null and we don't contain the key?\n            if (ourValue == null && !containsKey(key)) {\n                return false\n            }\n
            return true\n        }\n\n        /**\n         * Compares this map with other instance with the
ordered structural equality.\n         */\n\n        * @return true, if [other] instance is a [Map] of the same size, all entries of
which are contained in the [entries] set of this map.\n         */\n\n        override fun equals(other: Any?): Boolean {\n            if
(other === this) return true\n            if (other !is Map<*, *>) return false\n            if (size != other.size) return false\n\n
            return other.entries.all { containsEntry(it) }\n        }\n\n        override operator fun get(key: K): V? =
implFindEntry(key)?.value\n\n        /**\n         * Returns the hash code value for this map.\n         */\n\n        * It is the same as
the hashCode of [entries] set.\n         */\n\n        override fun hashCode(): Int = entries.hashCode()\n\n        override fun
isEmpty(): Boolean = size == 0\n\n        override val size: Int get() = entries.size\n\n        /**\n         * Returns a read-only
[Set] of all keys in this map.\n         */\n\n        * Accessing this property first time creates a keys view from [entries].\n         */
All subsequent accesses just return the created instance.\n         */\n\n        override val keys: Set<K>\n            get() {\n
                if (_keys == null) {\n                    _keys = object : AbstractSet<K>() {\n\n                        override operator fun
contains(element: K): Boolean = containsKey(element)\n\n                        override operator fun iterator(): Iterator<K>

```

```

{\n          val entryIterator = entries.iterator()\n          return object : Iterator<K> {\n
override fun hasNext(): Boolean = entryIterator.hasNext()\n          override fun next(): K =\n
entryIterator.next().key\n          }\n          }\n          override val size: Int get() =\n
this@AbstractMap.size\n          }\n          }\n          return _keys!!\n          }\n          @kotlin.jvm.Volatile\n
private var _keys: Set<K>? = null\n          override fun toString(): String = entries.joinToString(", ", "\n", "\n") {\n
toString(it) }\n          private fun toString(entry: Map.Entry<K, V>): String = toString(entry.key) + "=" +\n
toString(entry.value)\n          private fun toString(o: Any?): String = if (o === this) "(this Map)" else o.toString()\n          /**\n
* Returns a read-only [Collection] of all values in this map.\n
*\n
* Accessing this property first time\n
creates a values view from [entries].\n
* All subsequent accesses just return the created instance.\n
*\n
override val values: Collection<V>\n
get() {\n
if (_values == null) {\n
_values = object :\n
AbstractCollection<V>() {\n
override operator fun contains(element: @UnsafeVariance V): Boolean =\n
containsValue(element)\n
}\n
override operator fun iterator(): Iterator<V> {\n
val\n
entryIterator = entries.iterator()\n
return object : Iterator<V> {\n
override fun\n
hasNext(): Boolean = entryIterator.hasNext()\n
override fun next(): V = entryIterator.next().value\n
}\n
}\n
}\n
override val size: Int get() = this@AbstractMap.size\n
}\n
}\n
return _values!!\n
}\n
}\n
@kotlin.jvm.Volatile\n
private var _values: Collection<V>? = null\n          internal\n
companion object {\n          internal fun entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?:\n
0) xor (value?.hashCode() ?: 0) }\n          internal fun entryToString(e: Map.Entry<*, *>): String = with(e) {\n
"\$key=\$value" }\n          internal fun entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {\n
if (other !is\n
Map.Entry<*, *>) return false\n
return e.key == other.key && e.value == other.value\n
}\n
}\n
}\n
"/*\n
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*\n
*\n
package kotlin.collections\n
*/\n
* Provides a skeletal implementation of the read-only [Set] interface.\n
*\n
* This class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.\n
*\n
* @param E the type of elements contained in the set. The set is covariant in its element type.\n
*\n
*\n
@SinceKotlin("1.1")\n
public abstract class AbstractSet<out E> protected constructor() :
AbstractCollection<E>(), Set<E> {\n
/**\n
* Compares this set with other set instance with the unordered\n
structural equality.\n
*\n
* @return true, if [other] instance is a [Set] of the same size, all elements of which are\n
contained in this set.\n
*\n
override fun equals(other: Any?): Boolean {\n
if (other === this) return true\n
if (other !is Set<*>) return false\n
return setEquals(this, other)\n
}\n
/**\n
* Returns the hash code\n
value for this set.\n
*\n
override fun hashCode(): Int = unorderedHashCode(this)\n
internal companion\n
object {\n
internal fun unorderedHashCode(c: Collection<*>): Int {\n
var hashCode = 0\n
for\n
(element in c) {\n
hashCode += (element?.hashCode() ?: 0)\n
}\n
return hashCode\n
}\n
}\n
internal fun setEquals(c: Set<*>, other: Set<*>): Boolean {\n
if (c.size != other.size) return false\n
return c.containsAll(other)\n
}\n
}\n
"/*\n
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found in the license/LICENSE.txt file.\n
*\n
*\n
package kotlin.collections\n
*/\n
* Resizable-array implementation\n
of the deque data structure.\n
*\n
* The name deque is short for "double ended queue" and is usually pronounced\n
"deck".\n
*\n
* The collection provide methods for convenient access to the both ends.\n
*\n
* It also implements\n
[MutableList] interface and supports efficient get/set operations by index.\n
*\n
*\n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
public class ArrayDeque<E> :
AbstractMutableList<E> {\n
private var head: Int = 0\n
private var elementData: Array<Any?>\n
override\n
var size: Int = 0\n
private set\n
/**\n
* Constructs an empty deque with specified [initialCapacity], or\n
throws [IllegalArgumentException] if [initialCapacity] is negative.\n
*\n
public constructor(initialCapacity:\n
Int) {\n
elementData = when {\n
initialCapacity == 0 -> emptyElementData\n
initialCapacity > 0 -\n
> arrayOfNulls(initialCapacity)\n
else -> throw IllegalArgumentException("Illegal Capacity:\n
\$initialCapacity")\n
}\n
}\n
}\n
/**\n
* Constructs an empty deque.\n
*\n
public constructor() {\n

```

```

elementData = emptyElementData\n    }\n\n    /**\n     * Constructs a deque that contains the same elements as the
specified [elements] collection in the same order.\n     */\n    public constructor(elements: Collection<E>) {\n
elementData = elements.toArray()\n        size = elementData.size\n        if (elementData.isEmpty())
elementData = emptyElementData\n    }\n\n    /**\n     * Ensures that the capacity of this deque is at least equal to
the specified [minCapacity].\n     * If the current capacity is less than the [minCapacity], a new backing
storage is allocated with greater capacity.\n     * Otherwise, this method takes no action and simply returns.\n     */\n    private fun ensureCapacity(minCapacity: Int) {\n        if (minCapacity < 0) throw IllegalStateException("Deque is
too big.") // overflow\n        if (minCapacity <= elementData.size) return\n        if (elementData ===
emptyElementData) {\n            elementData = arrayOfNulls(minCapacity.coerceAtLeast(defaultMinCapacity))\n
        }\n        return\n    }\n\n    val newCapacity = newCapacity(elementData.size, minCapacity)\n
copyElements(newCapacity)\n    }\n\n    /**\n     * Creates a new array with the specified [newCapacity] size and
copies elements in the [elementData] array to it.\n     */\n    private fun copyElements(newCapacity: Int) {\n        val
newElements = arrayOfNulls<Any?>(newCapacity)\n        elementData.copyInto(newElements, 0, head,
elementData.size)\n        elementData.copyInto(newElements, elementData.size - head, 0, head)\n        head = 0\n
elementData = newElements\n    }\n\n    @kotlin.internal.InlineOnly\n    private inline fun
internalGet(internalIndex: Int): E {\n        @Suppress("UNCHECKED_CAST")\n        return
elementData[internalIndex] as E\n    }\n\n    private fun positiveMod(index: Int): Int = if (index >=
elementData.size) index - elementData.size else index\n\n    private fun negativeMod(index: Int): Int = if (index < 0)
index + elementData.size else index\n\n    @kotlin.internal.InlineOnly\n    private inline fun internalIndex(index:
Int): Int = positiveMod(head + index)\n\n    private fun incremented(index: Int): Int = if (index ==
elementData.lastIndex) 0 else index + 1\n\n    private fun decremented(index: Int): Int = if (index == 0)
elementData.lastIndex else index - 1\n\n    override fun isEmpty(): Boolean = size == 0\n\n    /**\n     * Returns the
first element, or throws [NoSuchElementException] if this deque is empty.\n     */\n    public fun first(): E = if
(isEmpty()) throw NoSuchElementException("ArrayDeque is empty.") else internalGet(head)\n\n    /**\n     *
Returns the first element, or `null` if this deque is empty.\n     */\n    public fun firstOrNull(): E? = if (isEmpty()) null
else internalGet(head)\n\n    /**\n     * Returns the last element, or throws [NoSuchElementException] if this deque
is empty.\n     */\n    public fun last(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")
else internalGet(internalIndex(lastIndex))\n\n    /**\n     * Returns the last element, or `null` if this deque is empty.\n
*/\n    public fun lastOrNull(): E? = if (isEmpty()) null else internalGet(internalIndex(lastIndex))\n\n    /**\n     *
Prepends the specified [element] to this deque.\n     */\n    public fun addFirst(element: E) {\n
ensureCapacity(size + 1)\n        head = decremented(head)\n        elementData[head] = element\n        size += 1\n
    }\n\n    /**\n     * Appends the specified [element] to this deque.\n     */\n    public fun addLast(element: E) {\n
ensureCapacity(size + 1)\n        elementData[internalIndex(size)] = element\n        size += 1\n    }\n\n    /**\n     *
Removes the first element from this deque and returns that removed element, or throws [NoSuchElementException]
if this deque is empty.\n     */\n    public fun removeFirst(): E {\n        if (isEmpty()) throw
NoSuchElementException("ArrayDeque is empty.")\n        val element = internalGet(head)\n
elementData[head] = null\n        head = incremented(head)\n        size -= 1\n        return element\n    }\n\n    /**\n     *
Removes the first element from this deque and returns that removed element, or returns `null` if this deque is
empty.\n     */\n    public fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()\n\n    /**\n     *
Removes the last element from this deque and returns that removed element, or throws [NoSuchElementException]
if this deque is empty.\n     */\n    public fun removeLast(): E {\n        if (isEmpty()) throw
NoSuchElementException("ArrayDeque is empty.")\n        val internalLastIndex = internalIndex(lastIndex)\n
val element = internalGet(internalLastIndex)\n        elementData[internalLastIndex] = null\n        size -= 1\n
return element\n    }\n\n    /**\n     * Removes the last element from this deque and returns that removed element, or
returns `null` if this deque is empty.\n     */\n    public fun removeLastOrNull(): E? = if (isEmpty()) null else
removeLast()\n\n    // MutableList, MutableCollection\n    public override fun add(element: E): Boolean {\n
addLast(element)\n        return true\n    }\n\n    public override fun add(index: Int, element: E) {\n
AbstractList.checkPositionIndex(index, size)\n        if (index == size) {\n            addLast(element)\n

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return\n    } else if (index == 0) {\n        addFirst(element)\n        return\n    }\n    ensureCapacity(size + 1)\n    // Elements in circular array lay in 2 ways:\n    // 1. `head` is less than `tail`:  [#, #, e1, e2, e3, #]\n    // 2. `head` is greater than `tail`: [e3, #, #, #, e1, e2]\n    // where head is the index of the first element in the circular array,\n    // and tail is the index following the last element.\n    // At this point the insertion index is not equal to head or tail.\n    // Also the circular array can store at least one more element.\n    // Depending on where the given element must be inserted the preceding or the succeeding\n    // elements will be shifted to make room for the element to be inserted.\n    // In case the preceding elements are shifted:\n    // * if the insertion index is greater than the head (regardless of circular array form)\n    // -> shift the preceding elements\n    // * otherwise, the circular array has (2) form and the insertion index is less than tail\n    // -> shift all elements in the back of the array\n    // -> shift preceding elements in the front of the array\n    // In case the succeeding elements are shifted:\n    // * if the insertion index is less than the tail (regardless of circular array form)\n    // -> shift the succeeding elements\n    // * otherwise, the circular array has (2) form and the insertion index is greater than head\n    // -> shift all elements in the front of the array\n    // -> shift succeeding elements in the back of the array\n    val internalIndex = internalIndex(index)\n    if (index < (size + 1) shr 1) {\n        // closer to the first element -> shift preceding elements\n        val decrementedInternalIndex = decremented(internalIndex)\n        val decrementedHead = decremented(head)\n        if (decrementedInternalIndex >= head) {\n            elementData[decrementedHead] = elementData[head] // head can be zero\n            elementData.copyInto(elementData, head, head + 1, decrementedInternalIndex + 1)\n        } else { // head > tail\n            elementData.copyInto(elementData, head - 1, head, elementData.size) // head can't be zero\n            elementData[elementData.size - 1] = elementData[0]\n            elementData.copyInto(elementData, 0, 1, decrementedInternalIndex + 1)\n        }\n        elementData[decrementedInternalIndex] = element\n        head = decrementedHead\n    } else {\n        // closer to the last element -> shift succeeding elements\n        val tail = internalIndex(size)\n        if (internalIndex < tail) {\n            elementData.copyInto(elementData, internalIndex + 1, internalIndex, tail)\n        } else { // head > tail\n            elementData.copyInto(elementData, 1, 0, tail)\n            elementData[0] = elementData[elementData.size - 1]\n            elementData.copyInto(elementData, internalIndex + 1, internalIndex, elementData.size - 1)\n        }\n        elementData[internalIndex] = element\n    }\n    size += 1\n}\n\nprivate fun copyCollectionElements(internalIndex: Int, elements: Collection<E>) {\n    val iterator = elements.iterator()\n    for (index in internalIndex until elementData.size) {\n        if (!iterator.hasNext()) break\n        elementData[index] = iterator.next()\n    }\n    for (index in 0 until head) {\n        if (!iterator.hasNext()) break\n        elementData[index] = iterator.next()\n    }\n    size += elements.size\n}\n\npublic override fun addAll(elements: Collection<E>): Boolean {\n    if (elements.isEmpty()) return false\n    ensureCapacity(this.size + elements.size)\n    copyCollectionElements(internalIndex(size), elements)\n    return true\n}\n\npublic override fun addAll(index: Int, elements: Collection<E>): Boolean {\n    AbstractList.checkPositionIndex(index, size)\n    if (elements.isEmpty()) {\n        return false\n    } else if (index == size) {\n        return addAll(elements)\n    }\n    ensureCapacity(this.size + elements.size)\n    val tail = internalIndex(size)\n    val internalIndex = internalIndex(index)\n    val elementsSize = elements.size\n    if (index < (size + 1) shr 1) {\n        // closer to the first element -> shift preceding elements\n        var shiftedHead = head - elementsSize\n        if (internalIndex >= head) {\n            if (shiftedHead >= 0) {\n                elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n            } else { // head < tail, insertion leads to head >= tail\n                shiftedHead += elementData.size\n                val elementsToShift = internalIndex - head\n                val shiftToBack = elementData.size - shiftedHead\n                if (shiftToBack >= elementsToShift) {\n                    elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n                } else {\n                    elementData.copyInto(elementData, shiftedHead, head, head + shiftToBack)\n                    elementData.copyInto(elementData, 0, head + shiftToBack, internalIndex)\n                }\n            }\n        } else { // head > tail, internalIndex < tail\n            elementData.copyInto(elementData, shiftedHead, head, elementData.size)\n            if (elementsSize >= internalIndex) {\n                elementData.copyInto(elementData, elementData.size - elementsSize, 0, internalIndex)\n            } else {\n
```

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    elementData.copyInto(elementData, elementData.size - elementsSize, 0, elementsSize)\n
elementData.copyInto(elementData, 0, elementsSize, internalIndex)\n        }\n        }\n        head =
shiftedHead\n        copyCollectionElements(negativeMod(internalIndex - elementsSize), elements)\n    } else
{\n        // closer to the last element -> shift succeeding elements\n        val shiftedInternalIndex =
internalIndex + elementsSize\n        if (internalIndex < tail) {\n            if (tail + elementsSize <=
elementData.size) {\n                elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, tail)\n
            } else { // head < tail, insertion leads to head >= tail\n                if (shiftedInternalIndex >= elementData.size)\n
{\n                    elementData.copyInto(elementData, shiftedInternalIndex - elementData.size, internalIndex, tail)\n
                } else {\n                    val shiftToFront = tail + elementsSize - elementData.size\n
elementData.copyInto(elementData, 0, tail - shiftToFront, tail)\n                    elementData.copyInto(elementData,
shiftedInternalIndex, internalIndex, tail - shiftToFront)\n                }\n            } else { // head > tail,
internalIndex > head\n                elementData.copyInto(elementData, elementsSize, 0, tail)\n                if
(shiftedInternalIndex >= elementData.size) {\n                    elementData.copyInto(elementData, shiftedInternalIndex
- elementData.size, internalIndex, elementData.size)\n                } else {\n
elementData.copyInto(elementData, 0, elementData.size - elementsSize, elementData.size)\n
elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, elementData.size - elementsSize)\n
}\n        }\n        copyCollectionElements(internalIndex, elements)\n    }\n    return true\n }\n\n public
override fun get(index: Int): E {\n    AbstractList.checkElementIndex(index, size)\n    return
internalGet(internalIndex(index))\n }\n\n public override fun set(index: Int, element: E): E {\n
AbstractList.checkElementIndex(index, size)\n    val internalIndex = internalIndex(index)\n    val oldElement
= internalGet(internalIndex)\n    elementData[internalIndex] = element\n    return oldElement\n }\n\n
public override fun contains(element: E): Boolean = indexOf(element) != -1\n\n public override fun
indexOf(element: E): Int {\n    val tail = internalIndex(size)\n    if (head < tail) {\n        for (index in head
until tail) {\n            if (element == elementData[index]) return index - head\n        }\n    } else if (head >=
tail) {\n        for (index in head until elementData.size) {\n            if (element == elementData[index]) return
index - head\n        }\n        for (index in 0 until tail) {\n            if (element == elementData[index]) return
index + elementData.size - head\n        }\n    }\n    return -1\n }\n\n public override fun
lastIndexOf(element: E): Int {\n    val tail = internalIndex(size)\n    if (head < tail) {\n        for (index in tail
- 1 downTo head) {\n            if (element == elementData[index]) return index - head\n        }\n    } else if
(head > tail) {\n        for (index in tail - 1 downTo 0) {\n            if (element == elementData[index]) return
index + elementData.size - head\n        }\n        for (index in elementData.lastIndex downTo head) {\n
if (element == elementData[index]) return index - head\n        }\n    }\n    return -1\n }\n\n public
override fun remove(element: E): Boolean {\n    val index = indexOf(element)\n    if (index == -1) return
false\n    removeAt(index)\n    return true\n }\n\n public override fun removeAt(index: Int): E {\n
AbstractList.checkElementIndex(index, size)\n    if (index == lastIndex) {\n        return removeLast()\n    }
else if (index == 0) {\n        return removeFirst()\n    }\n    val internalIndex = internalIndex(index)\n
val element = internalGet(internalIndex)\n    if (index < size shr 1) {\n        // closer to the first element ->
shift preceding elements\n        if (internalIndex >= head) {\n            elementData.copyInto(elementData, head
+ 1, head, internalIndex)\n        } else { // head > tail, internalIndex < head\n
elementData.copyInto(elementData, 1, 0, internalIndex)\n            elementData[0] = elementData[elementData.size
- 1]\n            elementData.copyInto(elementData, head + 1, head, elementData.size - 1)\n        }\n    }\n
elementData[head] = null\n    head = incremented(head)\n    } else {\n        // closer to the last element ->
shift succeeding elements\n        val internalLastIndex = internalIndex(lastIndex)\n        if (internalIndex <=
internalLastIndex) {\n            elementData.copyInto(elementData, internalIndex, internalIndex + 1,
internalLastIndex + 1)\n        } else { // head > tail, internalIndex > head\n
elementData.copyInto(elementData, internalIndex, internalIndex + 1, elementData.size)\n
elementData[elementData.size - 1] = elementData[0]\n            elementData.copyInto(elementData, 0, 1,
internalLastIndex + 1)\n        }\n    }\n    elementData[internalLastIndex] = null\n    }\n    size -= 1\n

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return element\n    }\n\n    public override fun removeAll(elements: Collection<E>): Boolean = filterInPlace {
!elements.contains(it) }\n\n    public override fun retainAll(elements: Collection<E>): Boolean = filterInPlace {
elements.contains(it) }\n\n    private inline fun filterInPlace(predicate: (E) -> Boolean): Boolean {\n        if
(this.isEmpty() || elementData.isEmpty())\n            return false\n\n        val tail = internalIndex(size)\n        var
newTail = head\n        var modified = false\n\n        if (head < tail) {\n            for (index in head until tail) {\n
val element = elementData[index]\n                @Suppress(\"UNCHECKED_CAST\")\n                if
(predicate(element as E))\n                    elementData[newTail++] = element\n                    else\n                        modified =
true\n            }\n\n            elementData.fill(null, newTail, tail)\n        } else {\n            for (index in head until
elementData.size) {\n                val element = elementData[index]\n                elementData[index] = null\n\n
@Suppress(\"UNCHECKED_CAST\")\n                if (predicate(element as E))\n                    elementData[newTail++] = element\n
                    else\n                        modified = true\n            }\n\n            newTail =
positiveMod(newTail)\n\n            for (index in 0 until tail) {\n                val element = elementData[index]\n
elementData[index] = null\n\n                @Suppress(\"UNCHECKED_CAST\")\n                if (predicate(element as
E)) {\n                    elementData[newTail] = element\n                    newTail = incremented(newTail)\n                }
else {\n                    modified = true\n                }\n            }\n\n            if (modified)\n                size =
negativeMod(newTail - head)\n\n            return modified\n        }\n\n        public override fun clear() {\n            val tail =
internalIndex(size)\n            if (head < tail) {\n                elementData.fill(null, head, tail)\n            } else if (isNotEmpty())
{\n                elementData.fill(null, head, elementData.size)\n                elementData.fill(null, 0, tail)\n            }\n
            head =
0\n            size = 0\n        }\n\n        @Suppress(\"NOTHING_TO_OVERRIDE\")\n        override fun <T> toArray(array:
Array<T>): Array<T> {\n            @Suppress(\"UNCHECKED_CAST\")\n            val dest = (if (array.size >= size) array
else arrayOfNulls(array, size)) as Array<Any?>\n\n            val tail = internalIndex(size)\n            if (head < tail) {\n
elementData.copyInto(dest, startIndex = head, endIndex = tail)\n            } else if (isNotEmpty()) {\n
elementData.copyInto(dest, destinationOffset = 0, startIndex = head, endIndex = elementData.size)\n
elementData.copyInto(dest, destinationOffset = elementData.size - head, startIndex = 0, endIndex = tail)\n        }\n\n
            if (dest.size > size) {\n                dest[size] = null // null-terminate\n            }\n\n            @Suppress(\"UNCHECKED_CAST\")\n            return dest as Array<T>\n        }\n\n        @Suppress(\"NOTHING_TO_OVERRIDE\")\n        override fun toArray(): Array<Any?> {\n            return
toArray(arrayOfNulls<Any?>(size))\n        }\n\n        // for testing\n        internal fun <T> testToArray(array: Array<T>):
Array<T> = toArray(array)\n\n        internal fun testToArray(): Array<Any?> = toArray()\n\n        internal companion
object {\n            private val emptyElementData = emptyArray<Any?>()\n            private const val maxArraySize =
Int.MAX_VALUE - 8\n            private const val defaultMinCapacity = 10\n\n            internal fun
newCapacity(oldCapacity: Int, minCapacity: Int): Int {\n                // overflow-conscious\n                var newCapacity =
oldCapacity + (oldCapacity shr 1)\n                if (newCapacity - minCapacity < 0)\n                    newCapacity =
minCapacity\n                if (newCapacity - maxArraySize > 0)\n                    newCapacity = if (minCapacity >
maxArraySize) Int.MAX_VALUE else maxArraySize\n                return newCapacity\n            }\n        }\n\n        // For testing
only\n        internal fun internalStructure(structure: (head: Int, elements: Array<Any?>) -> Unit) {\n            val tail =
internalIndex(size)\n            val head = if (isEmpty() || head < tail) head else head - elementData.size\n
structure(head, toArray())\n        }\n    }\n}
/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ArraysKt\")\n\npackage
kotlin.collections\n\nimport kotlin.contracts.*\n\n/**\n * Returns a single list of all elements from all arrays in the
given array.\n * @sample samples.collections.Arrays.Transformations.flattenArray\n */\n\npublic fun <T> Array<out
Array<out T>>.flatten(): List<T> {\n    val result = ArrayList<T>(sumOf { it.size })\n    for (element in this) {\n
result.addAll(element)\n    }\n    return result\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from
the first values of each pair from this array,\n * *second* list is built from the second values of each pair from this
array.\n * @sample samples.collections.Arrays.Transformations.unzipArray\n */\n\npublic fun <T, R> Array<out
Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>(size)\n    val listR =

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ArrayList<R>(size)\n for (pair in this) {\n listT.add(pair.first)\n listR.add(pair.second)\n }\n return
listT to listR\n}\n\n/**\n * Returns `true` if this nullable array is either null or empty.\n * @sample
samples.collections.Arrays.Usage.arrayIsNullOrEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun Array<*>?.isNullOrEmpty(): Boolean
{\n contract {\n returns(false) implies (this@isNullOrEmpty != null)\n }\n return this == null ||
this.isEmpty()\n}\n\n/**\n * Returns this array if it's not empty\n * or the result of calling [defaultValue] function if
the array is empty.\n * @sample samples.collections.Arrays.Usage.arrayIfEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("UPPER_BOUND_CANNOT_BE_ARRAY")\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\n if (isEmpty())
defaultValue() else
this\n}\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.Jvm
Name("contentDeepEquals")\n@kotlin.js.JsName("contentDeepEqualsImpl")\ninternal fun <T> Array<out
T>?.contentDeepEqualsImpl(other: Array<out T>?): Boolean {\n if (this === other) return true\n if (this == null
|| other == null || this.size != other.size) return false\n for (i in indices) {\n val v1 = this[i]\n val v2 =
other[i]\n if (v1 === v2) {\n continue\n } else if (v1 == null || v2 == null) {\n return false\n
}\n when {\n v1 is Array<*> && v2 is Array<*> -> if (!v1.contentDeepEquals(v2)) return
false\n v1 is ByteArray && v2 is ByteArray -> if (!v1.contentEquals(v2)) return false\n v1 is
ShortArray && v2 is ShortArray -> if (!v1.contentEquals(v2)) return false\n v1 is IntArray && v2 is
IntArray -> if (!v1.contentEquals(v2)) return false\n v1 is LongArray && v2 is LongArray -> if
(!v1.contentEquals(v2)) return false\n v1 is FloatArray && v2 is FloatArray -> if (!v1.contentEquals(v2))
return false\n v1 is DoubleArray && v2 is DoubleArray -> if (!v1.contentEquals(v2)) return false\n
v1 is CharArray && v2 is CharArray -> if (!v1.contentEquals(v2)) return false\n v1 is BooleanArray &&
v2 is BooleanArray -> if (!v1.contentEquals(v2)) return false\n v1 is UByteArray && v2 is UByteArray
-> if (!v1.contentEquals(v2)) return false\n v1 is UShortArray && v2 is UShortArray -> if
(!v1.contentEquals(v2)) return false\n v1 is UIntArray && v2 is UIntArray -> if (!v1.contentEquals(v2))
return false\n v1 is ULongArray && v2 is ULongArray -> if (!v1.contentEquals(v2)) return false\n
else -> if (v1 != v2) return false\n }\n\n }\n return
true\n}\n\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.JvmName("contentDeepToString")\n@kotlin.js.
JsName("contentDeepToStringImpl")\ninternal fun <T> Array<out T>?.contentDeepToStringImpl(): String {\n
if (this == null) return "null"\n val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not
to overflow Int.MAX_VALUE\n return buildString(length) {\n contentDeepToStringInternal(this,
mutableListOf())\n }\n}\n\n@OptIn(ExperimentalUnsignedTypes::class)\nprivate fun <T> Array<out
T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\n if (this in
processed) {\n result.append("[...]")\n return\n }\n processed.add(this)\n result.append("[")\n for (i
in indices) {\n if (i != 0) {\n result.append(", ")\n }\n val element = this[i]\n when
(element) {\n null -> result.append("null")\n is Array<*> ->
element.contentDeepToStringInternal(result, processed)\n is ByteArray ->
result.append(element.contentToString())\n is ShortArray -> result.append(element.contentToString())\n
is IntArray -> result.append(element.contentToString())\n is LongArray ->
result.append(element.contentToString())\n is FloatArray -> result.append(element.contentToString())\n
is DoubleArray -> result.append(element.contentToString())\n is CharArray ->
result.append(element.contentToString())\n is BooleanArray -> result.append(element.contentToString())\n
is UByteArray -> result.append(element.contentToString())\n is UShortArray ->
result.append(element.contentToString())\n is UIntArray -> result.append(element.contentToString())\n
is ULongArray -> result.append(element.contentToString())\n else ->
result.append(element.toString())\n }\n }\n result.append("]")\n
processed.removeAt(processed.lastIndex)\n}"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

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license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/** Returns true if the brittle contains optimization
is enabled. See KT-45438. */\ninternal expect fun brittleContainsOptimizationEnabled(): Boolean\n\n/**\n * Returns true if [brittleContainsOptimizationEnabled] is true\n * and it's safe to convert this collection to a set
without changing contains method behavior.\n */\nprivate fun <T> Collection<T>.safeToConvertToSet() =
brittleContainsOptimizationEnabled() && size > 2 && this is ArrayList\n\n/**\n * When
[brittleContainsOptimizationEnabled] is true:\n * - Converts this [Iterable] to a set if it is not a [Collection].\n * -
Converts this [Collection] to a set, when it's worth so and it doesn't change contains method behavior.\n * -
Otherwise returns this.\n * When [brittleContainsOptimizationEnabled] is false:\n * - Converts this [Iterable] to a
list if it is not a [Collection].\n * - Otherwise returns this.\n */\ninternal fun <T>
Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =\n    when (this) {\n        is Set -> this\n        is Collection -> \n            when {\n                source is Collection && source.size < 2 -> this\n                else -> if (this.safeToConvertToSet()) toHashSet() else this\n            }\n        else -> if
(brittleContainsOptimizationEnabled()) toHashSet() else toList()\n    }\n\n/**\n * When
[brittleContainsOptimizationEnabled] is true:\n * - Converts this [Iterable] to a set if it is not a [Collection].\n * -
Converts this [Collection] to a set, when it's worth so and it doesn't change contains method behavior.\n * -
Otherwise returns this.\n * When [brittleContainsOptimizationEnabled] is false:\n * - Converts this [Iterable] to a
list if it is not a [Collection].\n * - Otherwise returns this.\n */\ninternal fun <T>
Iterable<T>.convertToSetForSetOperation(): Collection<T> =\n    when (this) {\n        is Set -> this\n        is
Collection -> if (this.safeToConvertToSet()) toHashSet() else this\n        else -> if
(brittleContainsOptimizationEnabled()) toHashSet() else toList()\n    }\n\n/**\n * Converts this sequence to a set if
[brittleContainsOptimizationEnabled] is true,\n * otherwise converts it to a list.\n */\ninternal fun <T>
Sequence<T>.convertToSetForSetOperation(): Collection<T> =\n    if (brittleContainsOptimizationEnabled())
toHashSet() else toList()\n\n/**\n * Converts this array to a set if [brittleContainsOptimizationEnabled] is true,\n *
otherwise converts it to a list.\n */\ninternal fun <T> Array<T>.convertToSetForSetOperation(): Collection<T> =\n    if
(brittleContainsOptimizationEnabled()) toHashSet() else asList()", /*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Data class
representing a value from a collection or sequence, along with its index in that collection or sequence.\n */\n *
@property value the underlying value.\n * @property index the index of the value in the collection or sequence.\n
*/\n\npublic data class IndexedValue<out T>(public val index: Int, public val value: T)\n\n/*\n * Copyright 2010-
2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("MapAccessorsKt")\n\npackage kotlin.collections\n\nimport
kotlin.reflect.KProperty\nimport kotlin.internal.Exact\n\n/**\n * Returns the value of the property for the given
object from this read-only map.\n * @param thisRef the object for which the value is requested (not used).\n *
@param property the metadata for the property, used to get the name of property and lookup the value
corresponding to this name in the map.\n * @return the property value.\n */\n * @throws NoSuchElementException
when the map doesn't contain value for the property name and doesn't provide an implicit default (see
[withDefault]).\n */\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> Map<in String, @Exact
V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\n    @Suppress("UNCHECKED_CAST")
(getOrNullImplicitDefault(property.name) as V1)\n\n/**\n * Returns the value of the property for the given object from
this mutable map.\n * @param thisRef the object for which the value is requested (not used).\n * @param property
the metadata for the property, used to get the name of property and lookup the value corresponding to this name in
the map.\n * @return the property value.\n */\n * @throws NoSuchElementException when the map doesn't contain
value for the property name and doesn't provide an implicit default (see [withDefault]).\n
*/\n\n@kotlin.jvm.JvmName("getVar")\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V>
MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\n    @Suppress("UNCHECKED_CAST") (getOrNullImplicitDefault(property.name) as V1)\n\n/**\n * Stores the value of

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the property for the given object in this mutable map.\n * @param thisRef the object for which the value is requested (not used).\n * @param property the metadata for the property, used to get the name of property and store the value associated with that name in the map.\n * @param value the value to set.\n

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*\n@kotlin.internal.InlineOnly\npublic inline operator fun <V> MutableMap<in String, in V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n    this.put(property.name, value)\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n\npackage kotlin.collections\n\n/**\n * Returns the value for the given key, or the implicit default value for this map.\n * By default no implicit value is provided for maps and a [NoSuchElementException] is thrown.\n * To create a map with implicit default value use [withDefault] method.\n * @throws NoSuchElementException when the map doesn't contain a value for the specified key and no implicit default was provided for that map.\n
*\n@kotlin.jvm.JvmName("getOrNullImplicitDefaultNullable")\n@PublishedApi\ninternal fun <K, V> Map<K, V>.getOrNullImplicitDefault(key: K): V {\n    if (this is MapWithDefault)\n        return this.getOrNullImplicitDefault(key)\n    return getOrNull(key, { throw NoSuchElementException("Key $key is missing in the map.") })\n}\n\n/**\n * Returns a wrapper of this read-only map, having the implicit default value provided with the specified function [defaultValue].\n * This implicit default value is used when the original map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\n * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\n
*\npublic fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =\n    when (this) {\n        is MapWithDefault -> this.map.withDefault(defaultValue)\n        else -> MapWithDefaultImpl(this, defaultValue)\n    }\n\n/**\n * Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].\n * This implicit default value is used when the original map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\n * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\n
*\n@kotlin.jvm.JvmName("withDefaultMutable")\npublic fun <K, V> MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =\n    when (this) {\n        is MutableMapWithDefault -> this.map.withDefault(defaultValue)\n        else -> MutableMapWithDefaultImpl(this, defaultValue)\n    }\n\nprivate interface MapWithDefault<K, out V> : Map<K, V> {\n    public val map: Map<K, V>\n    public fun getOrNullImplicitDefault(key: K): V\n}\n\nprivate interface MutableMapWithDefault<K, V> : MutableMap<K, V>, MapWithDefault<K, V> {\n    public override val map: MutableMap<K, V>\n}\n\nprivate class MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default: (key: K) -> V) : MapWithDefault<K, V> {\n    override fun equals(other: Any?): Boolean = map.equals(other)\n    override fun hashCode(): Int = map.hashCode()\n    override fun toString(): String = map.toString()\n    override val size: Int get() = map.size\n    override fun isEmpty(): Boolean = map.isEmpty()\n    override fun containsKey(key: K): Boolean = map.containsKey(key)\n    override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)\n    override fun get(key: K): V? = map.get(key)\n    override val keys: Set<K> get() = map.keys\n    override val values: Collection<V> get() = map.values\n    override val entries: Set<Map.Entry<K, V>> get() = map.entries\n    override fun getOrNullImplicitDefault(key: K): V = map.getOrNull(key, { default(key) })\n}\n\nprivate class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K, V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {\n    override fun equals(other: Any?): Boolean = map.equals(other)\n    override fun hashCode(): Int = map.hashCode()\n    override fun toString(): String = map.toString()\n    override val size: Int get() = map.size\n    override fun isEmpty(): Boolean = map.isEmpty()\n    override fun containsKey(key: K): Boolean = map.containsKey(key)\n    override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)\n    override fun get(key: K): V? = map.get(key)\n    override val keys: MutableSet<K> get() = map.keys\n    override val values: MutableCollection<V> get() = map.values\n    override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries\n}

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override fun put(key: K, value: V): V? = map.put(key, value)\n  override fun remove(key: K): V? =
map.remove(key)\n  override fun putAll(from: Map<out K, V>) = map.putAll(from)\n  override fun clear() =
map.clear()\n\n  override fun getOrImplicitDefault(key: K): V = map.getOrNull(key, { default(key)
})\n}\n\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\nimport kotlin.random.Random\n\n/**\n * Removes a single instance of the specified element
from this\n * collection, if it is present.\n * \n * Allows to overcome type-safety restriction of `remove` that requires
to pass an element of type `E`.\n * \n * @return `true` if the element has been successfully removed; `false` if it was
not present in the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes
T> MutableCollection<out T>.remove(element: T): Boolean =\n  @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).remove(element)\n\n/**\n * Removes all of this collection's elements that are also
contained in the specified collection.\n * \n * Allows to overcome type-safety restriction of `removeAll` that requires
to pass a collection of type `Collection<E>`.\n * \n * @return `true` if any of the specified elements was removed
from the collection, `false` if the collection was not modified.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
<@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.removeAll(elements: Collection<T>): Boolean
=\n  @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).removeAll(elements)\n\n/**\n * Retains only the elements in this collection that are contained in the specified collection.\n * \n * Allows to
overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.\n * \n *
@return `true` if any element was removed from the collection, `false` if the collection was not modified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out
T>.retainAll(elements: Collection<T>): Boolean =\n  @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).retainAll(elements)\n\n/**\n * Adds the specified [element] to this mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(element: T)
{\n  this.add(element)\n}\n\n/**\n * Adds all elements of the given [elements] collection to this mutable
collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in
T>.plusAssign(elements: Iterable<T>) {\n  this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given
[elements] array to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
MutableCollection<in T>.plusAssign(elements: Array<T>) {\n  this.addAll(elements)\n}\n\n/**\n * Adds all
elements of the given [elements] sequence to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic
inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Sequence<T>) {\n
  this.addAll(elements)\n}\n\n/**\n * Removes a single instance of the specified [element] from this mutable
collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in
T>.minusAssign(element: T) {\n  this.remove(element)\n}\n\n/**\n * Removes all elements contained in the given
[elements] collection from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun
<T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {\n  this.removeAll(elements)\n}\n\n/**\n *
Removes all elements contained in the given [elements] array from this mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements:
Array<T>) {\n  this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements]
sequence from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
MutableCollection<in T>.minusAssign(elements: Sequence<T>) {\n  this.removeAll(elements)\n}\n\n/**\n * Adds
all elements of the given [elements] collection to this [MutableCollection].\n */\npublic fun <T>
MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean {\n  when (elements) {\n    is Collection ->
return addAll(elements)\n    else -> {\n      var result: Boolean = false\n      for (item in elements)\n
if (add(item)) result = true\n      return result\n    }\n  }\n}\n\n/**\n * Adds all elements of the given
[elements] sequence to this [MutableCollection].\n */\npublic fun <T> MutableCollection<in T>.addAll(elements:
Sequence<T>): Boolean {\n  var result: Boolean = false\n  for (item in elements) {\n    if (add(item)) result =
true\n  }\n  return result\n}\n\n/**\n * Adds all elements of the given [elements] array to this

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[MutableCollection].\n *\npublic fun <T> MutableCollection<in T>.addAll(elements: Array<out T>): Boolean {\n
return addAll(elements.asList())\n}\n\n**\n * Removes all elements from this [MutableCollection] that are also
contained in the given [elements] collection.\n *\npublic fun <T> MutableCollection<in T>.removeAll(elements:
Iterable<T>): Boolean {\n  return removeAll(elements.convertToSetForSetOperationWith(this))\n}\n\n**\n *
Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.\n
*\npublic fun <T> MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {\n  val set =
elements.convertToSetForSetOperation()\n  return set.isNotEmpty() && removeAll(set)\n}\n\n**\n * Removes all
elements from this [MutableCollection] that are also contained in the given [elements] array.\n *\npublic fun <T>
MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean {\n  return elements.isNotEmpty() &&
removeAll(elements.convertToSetForSetOperation())\n}\n\n**\n * Retains only elements of this
[MutableCollection] that are contained in the given [elements] collection.\n *\npublic fun <T>
MutableCollection<in T>.retainAll(elements: Iterable<T>): Boolean {\n  return
retainAll(elements.convertToSetForSetOperationWith(this))\n}\n\n**\n * Retains only elements of this
[MutableCollection] that are contained in the given [elements] array.\n *\npublic fun <T> MutableCollection<in
T>.retainAll(elements: Array<out T>): Boolean {\n  if (elements.isNotEmpty())\n    return
retainAll(elements.convertToSetForSetOperation())\n  else\n    return retainNothing()\n}\n\n**\n * Retains only
elements of this [MutableCollection] that are contained in the given [elements] sequence.\n *\npublic fun <T>
MutableCollection<in T>.retainAll(elements: Sequence<T>): Boolean {\n  val set =
elements.convertToSetForSetOperation()\n  if (set.isNotEmpty())\n    return retainAll(set)\n  else\n    return
retainNothing()\n}\n\nprivate fun MutableCollection<*>.retainNothing(): Boolean {\n  val result = isEmpty()\n  clear()\n  return result\}\n\n**\n * Removes all elements from this [MutableIterable] that match the given
[predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when no elements
were removed and collection was not modified.\n *\npublic fun <T> MutableIterable<T>.removeAll(predicate: (T)
-> Boolean): Boolean = filterInPlace(predicate, true)\n\n**\n * Retains only elements of this [MutableIterable] that
match the given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when
all elements were retained and collection was not modified.\n *\npublic fun <T>
MutableIterable<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)\n\nprivate fun
<T> MutableIterable<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {\n
  var result = false\n  with(iterator()) {\n    while (hasNext())\n      if (predicate(next()) ==
predicateResultToRemove) {\n        remove()\n        result = true\n      }\n  }\n  return
result\}\n\n**\n * Removes the element at the specified [index] from this list.\n * In Kotlin one should use the
[MutableList.removeAt] function instead.\n *\n@Deprecated("Use removeAt(index) instead.",
ReplaceWith("removeAt(index)"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline
fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)\n\n**\n * Removes the first element from this
mutable list and returns that removed element, or throws [NoSuchElementException] if this list is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeFirst(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(0)\n\n**\n * Removes the first element from this mutable list and returns that removed element, or
returns `null` if this list is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeFirstOrNull(): T? = if (isEmpty()) null else removeAt(0)\n\n**\n * Removes the last
element from this mutable list and returns that removed element, or throws [NoSuchElementException] if this list is
empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeLast(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(lastIndex)\n\n**\n * Removes the last element from this mutable list and returns that removed element,
or returns `null` if this list is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)\n\n**\n * Removes all

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elements from this [MutableList] that match the given [predicate].\n *\n * @return `true` if any element was
removed from this collection, or `false` when no elements were removed and collection was not modified.\n
*\npublic fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate,
true)\n\n/*\n * Retains only elements of this [MutableList] that match the given [predicate].\n *\n * @return `true`
if any element was removed from this collection, or `false` when all elements were retained and collection was not
modified.\n *\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean =
filterInPlace(predicate, false)\n\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean,
predicateResultToRemove: Boolean): Boolean {\n    if (this !is RandomAccess)\n        return (this as
MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\n    var writeIndex: Int = 0\n    for
(readIndex in 0..lastIndex) {\n        val element = this[readIndex]\n        if (predicate(element) ==
predicateResultToRemove)\n            continue\n        if (writeIndex != readIndex)\n            this[writeIndex] =
element\n        writeIndex++\n    }\n    if (writeIndex < size) {\n        for (removeIndex in lastIndex downTo
writeIndex)\n            removeAt(removeIndex)\n        return true\n    } else {\n        return false\n    }\n}\n\n"/\n *
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governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\nprivate open class ReversedListReadOnly<out T>(private val delegate: List<T>) :
AbstractList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n}\n\nprivate class ReversedList<T>(private val delegate: MutableList<T>) :
AbstractMutableList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n    override fun clear() = delegate.clear()\n    override fun removeAt(index:
Int): T = delegate.removeAt(reverseElementIndex(index))\n    override fun set(index: Int, element: T): T =
delegate.set(reverseElementIndex(index), element)\n    override fun add(index: Int, element: T) {\n
delegate.add(reversePositionIndex(index), element)\n    }\n}\n\nprivate fun List<*>.reverseElementIndex(index:
Int) =\n    if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException("Element index
$index must be in range [0..lastIndex]").\n\nprivate fun List<*>.reversePositionIndex(index: Int) =\n    if (index
in 0..size) size - index else throw IndexOutOfBoundsException("Position index $index must be in range
[0..size]").\n\n\n/*\n * Returns a reversed read-only view of the original List.\n * All changes made in the
original list will be reflected in the reversed one.\n * @sample samples.collections.ReversedViews.asReversedList\n
*\npublic fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)\n\n/*\n * Returns a reversed
mutable view of the original mutable List.\n * All changes made in the original list will be reflected in the reversed
one and vice versa.\n * @sample samples.collections.ReversedViews.asReversedMutableList\n
*\n\n@kotlin.jvm.JvmName("asReversedMutable")\n\npublic fun <T> MutableList<T>.asReversed():
MutableList<T> = ReversedList(this)\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n\n@file:OptIn(Experimenta
lTypeInference::class)\n\npackage kotlin.sequences\n\nimport kotlin.coroutines.*\nimport
kotlin.coroutines.intrinsics.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/*\n * Builds a
[Sequence] lazily yielding values one by one.\n *\n * @see kotlin.sequences.generateSequence\n *\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n *\n * @SinceKotlin("1.3")\n\npublic fun <T>
sequence(@BuilderInference block: suspend SequenceScope<T>().-> Unit): Sequence<T> = Sequence {
iterator(block) }\n\n@SinceKotlin("1.3")\n@Deprecated("Use 'sequence { }' function instead.",
ReplaceWith("sequence(builderAction)"), level =
DeprecationLevel.ERROR)\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> buildSequence(@BuilderInference
noinline builderAction: suspend SequenceScope<T>().-> Unit): Sequence<T> = Sequence { iterator(builderAction)
}\n\n/*\n * Builds an [Iterator] lazily yielding values one by one.\n *\n * @sample

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samples.collections.Sequences.Building.buildIterator\n * @sample samples.collections.Iterables.Building.iterable\n
*\n@SinceKotlin("1.3")\npublic fun <T> iterator(@BuilderInference block: suspend SequenceScope<T>().->
Unit): Iterator<T> {\n    val iterator = SequenceBuilderIterator<T>()\n    iterator.nextStep =
block.createCoroutineUnintercepted(receiver = iterator, completion = iterator)\n    return
iterator\n}\n\n@SinceKotlin("1.3")\n@Deprecated("Use 'iterator { }' function instead.",
ReplaceWith("iterator(builderAction)"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic
inline fun <T> buildIterator(@BuilderInference noinline builderAction: suspend SequenceScope<T>().-> Unit):
Iterator<T> = iterator(builderAction)\n\n/**\n * The scope for yielding values of a [Sequence] or an [Iterator],
provides [yield] and [yieldAll] suspension functions.\n *\n * @see sequence\n * @see iterator\n *\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*\n@RestrictsSuspension\n@SinceKotlin("1.3")\npublic abstract class SequenceScope<in T> internal
constructor() {\n    /**\n     * Yields a value to the [Iterator] being built and suspends\n     * until the next value is
requested.\n     *\n     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n     * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n     */\n    public abstract suspend fun yield(value:
T)\n\n    /**\n     * Yields all values from the `iterator` to the [Iterator] being built\n     * and suspends until all these
values are iterated and the next one is requested.\n     *\n     * The sequence of values returned by the given iterator
can be potentially infinite.\n     *\n     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n
*/\n    public abstract suspend fun yieldAll(iterator: Iterator<T>)\n\n    /**\n     * Yields a collections of values to
the [Iterator] being built\n     * and suspends until all these values are iterated and the next one is requested.\n     *\n
     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n     */\n    public suspend fun
yieldAll(elements: Iterable<T>) {\n        if (elements is Collection && elements.isEmpty()) return\n        return
yieldAll(elements.iterator())\n    }\n\n    /**\n     * Yields potentially infinite sequence of values to the [Iterator]
being built\n     * and suspends until all these values are iterated and the next one is requested.\n     *\n     * The
sequence can be potentially infinite.\n     *\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n     */\n    public suspend fun yieldAll(sequence:
Sequence<T>) = yieldAll(sequence.iterator())\n}\n\n@Deprecated("Use SequenceScope class instead.",
ReplaceWith("SequenceScope<T>"), level = DeprecationLevel.ERROR)\npublic typealias SequenceBuilder<T> =
SequenceScope<T>\n\nprivate typealias State = Int\n\nprivate const val State_NotReady: State = 0\nprivate const
val State_ManyNotReady: State = 1\nprivate const val State_ManyReady: State = 2\nprivate const val State_Ready:
State = 3\nprivate const val State_Done: State = 4\nprivate const val State_Failed: State = 5\n\nprivate class
SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {\n    private var state =
State_NotReady\n    private var nextValue: T? = null\n    private var nextIterator: Iterator<T>? = null\n    var
nextStep: Continuation<Unit>? = null\n\n    override fun hasNext(): Boolean {\n        while (true) {\n            when
(state) {\n                State_NotReady -> {}\n                State_ManyNotReady ->\n                    if
(nextIterator!!.hasNext()) {\n                        state = State_ManyReady\n                        return true\n                    }
else {\n                        nextIterator = null\n                    }\n                State_Done -> return false\n
                State_Ready, State_ManyReady -> return true\n                else -> throw exceptionalState()\n            }\n            state
= State_Failed\n            val step = nextStep!!\n            nextStep = null\n            step.resume(Unit)\n        }\n    }\n\n    override fun next(): T {\n        when (state) {\n            State_NotReady, State_ManyNotReady -> return
nextNotReady()\n            State_ManyReady -> {\n                state = State_ManyNotReady\n                return
nextIterator!!.next()\n            }\n            State_Ready -> {\n                state = State_NotReady\n
                @Suppress("UNCHECKED_CAST")\n                val result = nextValue as T\n                nextValue = null\n
                return result\n            }\n            else -> throw exceptionalState()\n        }\n    }\n\n    private fun nextNotReady(): T
{\n        if (!hasNext()) throw NoSuchElementException() else return next()\n    }\n\n    private fun
exceptionalState(): Throwable = when (state) {\n        State_Done -> NoSuchElementException()\n        State_Failed
-> IllegalStateException("Iterator has failed.")\n        else -> IllegalStateException("Unexpected state of the
iterator: $state")\n    }\n\n    override suspend fun yield(value: T) {\n        nextValue = value\n        state =

```

```

State_Ready\n    return suspendCoroutineUninterceptedOrReturn { c ->\n        nextStep = c\nCOROUTINE_SUSPENDED\n    }\n    }\n    override suspend fun yieldAll(iterator: Iterator<T>) {\n        if\n        (!iterator.hasNext()) return\n        nextIterator = iterator\n        state = State_ManyReady\n        return\n        suspendCoroutineUninterceptedOrReturn { c ->\n            nextStep = c\n            COROUTINE_SUSPENDED\n        }\n    }\n    // Completion continuation implementation\n    override fun resumeWith(result: Result<Unit>) {\n        result.getOrThrow() // just rethrow exception if it is there\n        state = State_Done\n    }\n    override val context:\n    CoroutineContext\n        get() = EmptyCoroutineContext\n    }"/*\n * Copyright 2010-2018 JetBrains s.r.o. and\n    Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that\n    can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal fun\n    checkWindowSizeStep(size: Int, step: Int) {\n        require(size > 0 && step > 0) {\n            if (size != step)\n                "\"Both size $size and step $step must be greater than zero.\"\n            else\n                "\"size $size must be greater than\n                zero.\"\n        }\n    }\n\ninternal fun <T> Sequence<T>.windowedSequence(size: Int, step: Int, partialWindows: Boolean,\n    reuseBuffer: Boolean): Sequence<List<T>> {\n    checkWindowSizeStep(size, step)\n    return Sequence {\n        windowedIterator(iterator(), size, step, partialWindows, reuseBuffer) }\n    }\n\ninternal fun <T>\n    windowedIterator(iterator: Iterator<T>, size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean):\n    Iterator<List<T>> {\n        if (!iterator.hasNext()) return EmptyIterator\n        return iterator<List<T>> {\n            val\n            bufferInitialCapacity = size.coerceAtMost(1024)\n            val gap = step - size\n            if (gap >= 0) {\n                var buffer\n                = ArrayList<T>(bufferInitialCapacity)\n                var skip = 0\n                for (e in iterator) {\n                    if (skip > 0) {\n                        skip -= 1; continue\n                    }\n                    buffer.add(e)\n                    if (buffer.size == size) {\n                        yield(buffer)\n                        if (reuseBuffer) buffer.clear() else buffer = ArrayList(size)\n                        skip = gap\n                    }\n                    if (buffer.isNotEmpty()) {\n                        if (partialWindows || buffer.size == size) yield(buffer)\n                    }\n                }\n            } else {\n                var buffer = RingBuffer<T>(bufferInitialCapacity)\n                for (e in iterator) {\n                    buffer.add(e)\n                    if (buffer.isFull()) {\n                        if (buffer.size < size) {\n                            buffer =\n                            buffer.expanded(maxCapacity = size); continue\n                        }\n                        yield(if (reuseBuffer) buffer else\n                            ArrayList(buffer))\n                        buffer.removeFirst(step)\n                    }\n                    if (partialWindows) {\n                        while (buffer.size > step) {\n                            yield(if (reuseBuffer) buffer else ArrayList(buffer))\n                            buffer.removeFirst(step)\n                        }\n                        if (buffer.isNotEmpty()) yield(buffer)\n                    }\n                }\n            }\n        }\n    }\n\ninternal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {\n    private var fromIndex: Int = 0\n    private var _size: Int = 0\n    fun move(fromIndex: Int, toIndex: Int) {\n        checkRangeIndexes(fromIndex, toIndex, list.size)\n        this.fromIndex = fromIndex\n        this._size = toIndex -\n        fromIndex\n    }\n    override fun get(index: Int): E {\n        checkElementIndex(index, _size)\n        return\n        list[fromIndex + index]\n    }\n    override val size: Int get() = _size\n    }"/*\n * Provides ring buffer\n    implementation.\n * Buffer overflow is not allowed so [add] doesn't overwrite tail but raises an exception.\n */\n\nprivate class RingBuffer<T>(private val buffer: Array<Any?>, filledSize: Int) : AbstractList<T>(),\n    RandomAccess {\n    init {\n        require(filledSize >= 0) {\n            "\"ring buffer filled size should not be negative but it is\n            $filledSize" }\n        require(filledSize <= buffer.size) {\n            "\"ring buffer filled size: $filledSize cannot be larger than\n            the buffer size: ${buffer.size}" }\n    }\n    constructor(capacity: Int) : this(arrayOfNulls<Any?>(capacity), 0)\n    private val capacity = buffer.size\n    private var startIndex: Int = 0\n    override var size: Int = filledSize\n    private set\n    override fun get(index: Int): T {\n        checkElementIndex(index, size)\n        @Suppress("UNCHECKED_CAST")\n        return buffer[startIndex.forward(index)] as T\n    }\n    fun isFull() =\n    size == capacity\n    override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {\n        private var count\n        = size\n        private var index = startIndex\n        override fun computeNext() {\n            if (count == 0) {\n                done()\n            } else {\n                @Suppress("UNCHECKED_CAST")\n                setNext(buffer[index] as\n                T)\n                index = index.forward(1)\n                count--\n            }\n        }\n    }\n    @Suppress("UNCHECKED_CAST")\n    override fun <T> toArray(array: Array<T>): Array<T> {\n        val\n        result: Array<T?> =\n        if (array.size < this.size) array.copyOf(this.size) else array as Array<T?>\n        val\n        size = this.size\n        var widx = 0\n        var idx = startIndex\n        while (widx < size && idx < capacity) {\n            result[widx] = buffer[idx] as T\n            widx++\n            idx++\n        }\n        idx = 0\n        while (widx <

```

```

size) {\n        result[widx] = buffer[idx] as T\n            widx++\n            idx++\n        }\n        if (result.size >
this.size) result[this.size] = null\n\n        return result as Array<T>\n    }\n\n    override fun toArray(): Array<Any?>
{\n        return toArray(arrayOfNulls(size))\n    }\n\n    /**\n     * Creates a new ring buffer with the capacity equal to
the minimum of [maxCapacity] and 1.5 * [capacity].\n     * The returned ring buffer contains the same elements as
this ring buffer.\n     */\n    fun expanded(maxCapacity: Int): RingBuffer<T> {\n        val newCapacity = (capacity +
(capacity shr 1) + 1).coerceAtMost(maxCapacity)\n        val newBuffer = if (startIndex == 0)
buffer.copyOf(newCapacity) else toArray(arrayOfNulls(newCapacity))\n        return RingBuffer(newBuffer, size)\n    }\n\n    /**\n     * Add [element] to the buffer or fail with [IllegalStateException] if no free space available in the
buffer.\n     */\n    fun add(element: T) {\n        if (isFull()) {\n            throw IllegalStateException("ring buffer is
full")\n        }\n        buffer[startIndex.forward(size)] = element\n        size++\n    }\n\n    /**\n     * Removes [n]
first elements from the buffer or fails with [IllegalArgumentException] if not enough elements in the buffer to
remove.\n     */\n    fun removeFirst(n: Int) {\n        require(n >= 0) { "\"n shouldn't be negative but it is $n\""}\n        require(n <= size) { "\"n shouldn't be greater than the buffer size: n = $n, size = $size\""}\n        if (n > 0) {\n            val start = startIndex\n            val end = start.forward(n)\n            if (start > end) {\n                buffer.fill(null, start,
capacity)\n                buffer.fill(null, 0, end)\n            } else {\n                buffer.fill(null, start, end)\n            }\n            startIndex = end\n            size -= n\n        }\n    }\n\n    @Suppress("NOTHING_TO_INLINE")\n    private
inline fun Int.forward(n: Int): Int = (this + n) % capacity\n}\n\n    /**\n     * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n     */\n\npackage kotlin.collections\n\n// UByteArray

```

```

=====
\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n    array: UByteArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n    array: UByteArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index
- 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n//
UShortArray

```

```

=====
\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n    array: UShortArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n    array: UShortArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left <
index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n//
UIntArray

```

```

=====
\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n    array: UIntArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n    array: UIntArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index
- 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n//
ULongArray

```

```

=====
\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n    array: ULongArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun

```

```
quickSort(\n    array: ULongArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n//
```

Interfaces

```
=====\n/**\n * Sorts the given array using qsort algorithm.\n */\n\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UByteArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UShortArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UIntArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: ULongArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n\n"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\n\n/**\n * Compares this object with the specified object for order. Returns zero if this object is equal\n * to the specified [other] object, a negative number if it's less than [other], or a positive number\n * if it's greater than [other].\n */\n * This function delegates to [Comparable.compareTo] and allows to call it in infix form.\n\n */\n\n@InlineOnly\n@SinceKotlin("1.6")\npublic inline infix fun <T> Comparable<T>.compareTo(other: T): Int =\n    this.compareTo(other)\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.contracts\n\nimport kotlin.internal.ContractsDsl\nimport kotlin.internal.InlineOnly\n\n/**\n * This marker distinguishes the experimental contract declaration API and is used to opt-in for that feature\n * when declaring contracts of user functions.\n */\n * Any usage of a declaration annotated with `@ExperimentalContracts` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalContracts::class)`,\n * or by using the compiler argument `-Xopt-in=kotlin.contracts.ExperimentalContracts`.\n\n */\n\n@Suppress("DEPRECATION")\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@Experimental\n@RequiresOptIn\n@MustBeDocumented\npublic annotation class ExperimentalContracts\n\n/**\n * Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc.,\n * can be used to describe the contract of a function.\n */\n * This type is used as a receiver type of the lambda function passed to the [contract] function.\n */\n * @see contract\n\n */\n\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin("1.3")\npublic interface ContractBuilder {\n\n    /**\n     * Describes a situation when a function returns normally, without any exceptions thrown.\n     */\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n     */\n     * // @sample samples.contracts.returnsContract\n     * @ContractsDsl public fun returns(): Returns\n\n    /**\n     * Describes a situation when a function returns normally with the specified return [value].\n     */\n     * The possible values of [value] are limited to `true`, `false` or `null`.\n     */\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n     */\n     * // @sample samples.contracts.returnsTrueContract\n     * // @sample samples.contracts.returnsFalseContract\n     * // @sample samples.contracts.returnsNullContract\n     * @ContractsDsl public fun returns(value: Any?): Returns\n\n    /**\n     * Describes a situation when a function returns normally with any value that is not `null`.\n     */\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n     */\n     * // @sample samples.contracts.returnsNotNullContract\n     * @ContractsDsl public fun returnsNotNull(): ReturnsNotNull\n\n    /**\n     * Specifies that the function parameter [lambda] is invoked in place.\n     */\n     * This contract specifies that:\n     * 1. the function [lambda] can only be invoked during the call of the owner function,\n     * and it won't be invoked after that owner function call is completed;\n     * 2. (optionally) the function [lambda] is invoked the amount of times specified by the [kind] parameter.\n     */\n     * see the [InvocationKind] enum for possible values.\n\n     * A function declaring the `callsInPlace` effect must be _inline_.\n     */\n     * // @sample samples.contracts.callsInPlaceAtMostOnceContract\n     * @sample
```

```

samples.contracts.callsInPlaceAtLeastOnceContract\n * @sample
samples.contracts.callsInPlaceExactlyOnceContract\n * @sample
samples.contracts.callsInPlaceUnknownContract\n */\n @ContractsDsl public fun <R> callsInPlace(lambda:
Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\n}\n\n/**\n * Specifies how
many times a function invokes its function parameter in place.\n *\n * See [ContractBuilder.callsInPlace] for the
details of the call-in-place function contract.\n
*/\n @ContractsDsl\n @ExperimentalContracts\n @SinceKotlin("1.3")\n public enum class InvocationKind {\n
/**\n * A function parameter will be invoked one time or not invoked at all.\n */\n // @sample
samples.contracts.callsInPlaceAtMostOnceContract\n @ContractsDsl AT_MOST_ONCE,\n\n /**\n * A
function parameter will be invoked one or more times.\n */\n */\n // @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n @ContractsDsl AT_LEAST_ONCE,\n\n /**\n * A
function parameter will be invoked exactly one time.\n */\n */\n // @sample
samples.contracts.callsInPlaceExactlyOnceContract\n @ContractsDsl EXACTLY_ONCE,\n\n /**\n * A
function parameter is called in place, but it's unknown how many times it can be called.\n */\n */\n // @sample
samples.contracts.callsInPlaceUnknownContract\n @ContractsDsl UNKNOWN\n}\n\n/**\n * Specifies the
contract of a function.\n *\n * The contract description must be at the beginning of a function and have at least one
effect.\n *\n * Only the top-level functions can have a contract for now.\n *\n * @param builder the lambda where
the contract of a function is described with the help of the [ContractBuilder] members.\n *\n */\n // @sample
samples.contracts.returnsContract\n * @sample samples.contracts.returnsTrueContract\n * @sample
samples.contracts.returnsFalseContract\n * @sample samples.contracts.returnsNullContract\n * @sample
samples.contracts.returnsNotNullContract\n * @sample samples.contracts.callsInPlaceAtMostOnceContract\n *
@sample samples.contracts.callsInPlaceAtLeastOnceContract\n * @sample
samples.contracts.callsInPlaceExactlyOnceContract\n * @sample
samples.contracts.callsInPlaceUnknownContract\n */\n @ContractsDsl\n @ExperimentalContracts\n @InlineOnly\n @
SinceKotlin("1.3")\n @Suppress("UNUSED_PARAMETER")\n public inline fun contract(builder:
ContractBuilder.() -> Unit) {} \n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n package kotlin.coroutines\n\n /**\n * Marks coroutine context element that
intercepts coroutine continuations.\n * The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the
interceptor and\n * intercepts all coroutine continuations with [interceptContinuation] invocations.\n *\n *
[ContinuationInterceptor] behaves like a [polymorphic element][AbstractCoroutineContextKey], meaning that\n *
its implementation delegates [get][CoroutineContext.Element.get] and
[minusKey][CoroutineContext.Element.minusKey]\n * to [getPolymorphicElement] and [minusPolymorphicKey]
respectively.\n * [ContinuationInterceptor] subtypes can be extracted from the coroutine context using either
[ContinuationInterceptor.Key]\n * or subtype key if it extends [AbstractCoroutineContextKey].\n
*/\n @SinceKotlin("1.3")\n public interface ContinuationInterceptor : CoroutineContext.Element {\n /**\n *
The key that defines *the* context interceptor.\n */\n companion object Key :
CoroutineContext.Key<ContinuationInterceptor>\n\n /**\n * Returns continuation that wraps the original
[continuation], thus intercepting all resumptions.\n * This function is invoked by coroutines framework when
needed and the resulting continuations are\n * cached internally per each instance of the original [continuation].\n
*\n * This function may simply return original [continuation] if it does not want to intercept this particular
continuation.\n */\n * When the original [continuation] completes, coroutine framework invokes
[releaseInterceptedContinuation]\n * with the resulting continuation if it was intercepted, that is if
`interceptContinuation` had previously\n * returned a different continuation instance.\n */\n public fun <T>
interceptContinuation(continuation: Continuation<T>): Continuation<T>\n\n /**\n * Invoked for the
continuation instance returned by [interceptContinuation] when the original\n * continuation completes and will
not be used anymore. This function is invoked only if [interceptContinuation]\n * had returned a different
continuation instance from the one it was invoked with.\n */\n * Default implementation does nothing.\n */\n

```



```

using both element key and its supertype key.\n * Example of polymorphic elements:\n * ```\n * open class
BaseElement : CoroutineContext.Element {\n *   companion object Key : CoroutineContext.Key<BaseElement>\n
*   override val key: CoroutineContext.Key<*> get() = Key\n *   // It is important to use getPolymorphicKey and
minusPolymorphicKey\n *   override fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>):
E? = getPolymorphicElement(key)\n *   override fun minusKey(key: CoroutineContext.Key<*>):
CoroutineContext = minusPolymorphicKey(key)\n * }\n *\n * class DerivedElement : BaseElement() {\n *
companion object Key : AbstractCoroutineContextKey<BaseElement, DerivedElement>(BaseElement, { it as?
DerivedElement })\n * }\n * // Now it is possible to query both `BaseElement` and `DerivedElement`\n *
someContext[BaseElement] // Returns BaseElement?, non-null both for BaseElement and DerivedElement
instances\n * someContext[DerivedElement] // Returns DerivedElement?, non-null only for DerivedElement
instance\n * ```\n * @param B base class of a polymorphic element\n * @param baseKey an instance of base key\n
* @param E element type associated with the current key\n * @param safeCast a function that can safely cast
abstract [CoroutineContext.Element] to the concrete [E] type\n *           and return the element if it is a subtype
of [E] or `null` otherwise.\n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n * public abstract class
AbstractCoroutineContextKey<B : Element, E : B>(\n *   baseKey: Key<B>,\n *   private val safeCast: (element:
Element) -> E?)\n * ) : Key<E> {\n *   private val topmostKey: Key<*> = if (baseKey is
AbstractCoroutineContextKey<*, *>) baseKey.topmostKey else baseKey\n *   internal fun tryCast(element:
Element): E? = safeCast(element)\n *   internal fun isSubKey(key: Key<*>): Boolean = key === this || topmostKey
=== key\n * }\n * Returns the current element if it is associated with the given [key] in a polymorphic manner
or `null` otherwise.\n * This method returns non-null value if either [Element.key] is equal to the given [key] or if
the [key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See
[AbstractCoroutineContextKey] for the example of usage.\n
*\n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n * public fun <E : Element>
Element.getPolymorphicElement(key: Key<E>): E? {\n *   if (key is AbstractCoroutineContextKey<*, *>) {\n *
@Suppress("UNCHECKED_CAST")\n *     return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n *
}\n *   @Suppress("UNCHECKED_CAST")\n *     return if (this.key === key) this as E else null\n * }\n * Returns empty coroutine context if the element is associated with the given [key] in a polymorphic manner\n * or
`null` otherwise.\n * This method returns empty context if either [Element.key] is equal to the given [key] or if the
[key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See
[AbstractCoroutineContextKey] for the example of usage.\n
*\n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n * public fun Element.minusPolymorphicKey(key: Key<*>):
CoroutineContext {\n *   if (key is AbstractCoroutineContextKey<*, *>) {\n *     return if (key.isSubKey(this.key)
&& key.tryCast(this) != null) EmptyCoroutineContext else this\n *   }\n *   return if (this.key === key)
EmptyCoroutineContext else this\n * }\n * An empty coroutine context.\n *\n * @SinceKotlin("1.3")\n * public
object EmptyCoroutineContext : CoroutineContext, Serializable {\n *   private const val serialVersionUID: Long =
0\n *   private fun readResolve(): Any = EmptyCoroutineContext\n *   public override fun <E : Element> get(key:
Key<E>): E? = null\n *   public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\n *
public override fun plus(context: CoroutineContext): CoroutineContext = context\n *   public override fun minusKey(key:
Key<*>): CoroutineContext = this\n *   public override fun hashCode(): Int = 0\n *   public override fun toString():
String = "EmptyCoroutineContext"\n * }\n * ----- internal impl -----\n * \n * // this class is not
exposed, but is hidden inside implementations\n * // this is a left-biased list, so that `plus` works
naturally\n * @SinceKotlin("1.3")\n * internal class CombinedContext(\n *   private val left: CoroutineContext,\n *
private val element: Element)\n * ) : CoroutineContext, Serializable {\n *   override fun <E : Element> get(key:
Key<E>): E? {\n *     var cur = this\n *     while (true) {\n *       cur.element[key]?.let { return it }\n *       val next
= cur.left\n *       if (next is CombinedContext) {\n *         cur = next\n *       } else {\n *         return
next[key]\n *       }\n *     }\n *   }\n *   public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n *
operation(left.fold(initial, operation), element)\n *   public override fun minusKey(key: Key<*>):
CoroutineContext {\n *     element[key]?.let { return left }\n *     val newLeft = left.minusKey(key)\n *     return

```



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when {\n      newLeft === left -> this\n      newLeft === EmptyCoroutineContext -> element\n      else ->
CombinedContext(newLeft, element)\n    }\n    }\n\n    private fun size(): Int {\n      var cur = this\n      var size
= 2\n      while (true) {\n        cur = cur.left as? CombinedContext ?: return size\n        size++\n      }\n    }\n\n    private fun contains(element: Element): Boolean =\n      get(element.key) == element\n\n    private fun
containsAll(context: CombinedContext): Boolean {\n      var cur = context\n      while (true) {\n        if
(!contains(cur.element)) return false\n        val next = cur.left\n        if (next is CombinedContext) {\n
cur = next\n        } else {\n          return contains(next as Element)\n        }\n      }\n    }\n\n    override fun
equals(other: Any?): Boolean =\n      this === other || other is CombinedContext && other.size() == size() &&
other.containsAll(this)\n\n    override fun hashCode(): Int = left.hashCode() + element.hashCode()\n\n    override
fun toString(): String =\n      "[" + fold("") { acc, element ->\n        if (acc.isEmpty()) element.toString() else
"\$acc, \$element"\n      } + "]\n\n    private fun writeReplace(): Any {\n      val n = size()\n      val elements =
arrayOfNulls<CoroutineContext>(n)\n      var index = 0\n      fold(Unit) { _, element -> elements[index++] =
element }\n      check(index == n)\n      @Suppress("UNCHECKED_CAST")\n      return Serialized(elements
as Array<CoroutineContext>)\n    }\n\n    private class Serialized(val elements: Array<CoroutineContext>) :
Serializable {\n      companion object {\n        private const val serialVersionUID: Long = 0L\n      }\n\n      private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)\n    }\n\n  }"/*\n
* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("IntrinsicsKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.coroutines.intrinsics\n\nimport kotlin.contracts.*\nimport kotlin.coroutines.*\nimport
kotlin.internal.InlineOnly\n\n/**\n * Obtains the current continuation instance inside suspend functions and either
suspends\n * currently running coroutine or returns result immediately without suspension.\n * *\n * If the [block]
returns the special [COROUTINE_SUSPENDED] value, it means that suspend function did suspend the execution
and will\n * not return any result immediately. In this case, the [Continuation] provided to the [block] shall be\n *
resumed by invoking [Continuation.resumeWith] at some moment in the\n * future when the result becomes
available to resume the computation.\n * *\n * Otherwise, the return value of the [block] must have a type assignable
to [T] and represents the result of this suspend function.\n * *\n * It means that the execution was not suspended and the
[Continuation] provided to the [block] shall not be invoked.\n * *\n * As the result type of the [block] is declared as
`Any?` and cannot be correctly type-checked,\n * its proper return type remains on the conscience of the suspend
function's author.\n * *\n * Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's
thread without going through the\n * [ContinuationInterceptor] that might be present in the coroutine's
[CoroutineContext].\n * *\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\n *
[Continuation.intercepted] can be used to acquire the intercepted continuation.\n * *\n * Note that it is not
recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions
synchronously\n * in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way
to obtain current\n * continuation instance.\n
*/\n\n@SinceKotlin("1.3")\n@InlineOnly\n@Suppress("UNUSED_PARAMETER",
"RedundantSuspendModifier")\npublic suspend inline fun <T>
suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T {\n  contract {
callsInPlace(block, InvocationKind.EXACTLY_ONCE) }\n  throw NotImplementedError("Implementation of
suspendCoroutineUninterceptedOrReturn is intrinsic")\n}\n\n/**\n * This value is used as a return value of
[suspendCoroutineUninterceptedOrReturn] `block` argument to state that\n * the execution was suspended and will
not return any result immediately.\n * *\n * Note: this value should not be used in general code. Using it outside
of the context of\n * `suspendCoroutineUninterceptedOrReturn` function return value (including, but not limited
to,\n * storing this value in other properties, returning it from other functions, etc)\n * can lead to unspecified
behavior of the code.\n */\n\n// It is implemented as property with getter to avoid ProGuard <clinit> problem with
multifile IntrinsicsKt class\n@SinceKotlin("1.3")\npublic val COROUTINE_SUSPENDED: Any get() =
CoroutineSingletons.COROUTINE_SUSPENDED\n\n// Using enum here ensures two important properties:\n// 1.

```

It makes SafeContinuation serializable with all kinds of serialization frameworks (since all of them natively support enums)\n// 2. It improves debugging experience, since you clearly see toString() value of those objects and what package they come from\n@SinceKotlin("1.3")\n@PublishedApi // This class is Published API via serialized representation of SafeContinuation, don't rename/move\ninternal enum class CoroutineSingletons {
COROUTINE_SUSPENDED, UNDECIDED, RESUMED } \n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.experimental\n/** Performs a bitwise AND operation between the two values. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.and(other: Byte): Byte = (this.toInt() and other.toInt()).toByte()\n/** Performs a bitwise OR operation between the two values. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.or(other: Byte): Byte = (this.toInt() or other.toInt()).toByte()\n/** Performs a bitwise XOR operation between the two values. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.xor(other: Byte): Byte = (this.toInt() xor other.toInt()).toByte()\n/** Inverts the bits in this value. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.inv(): Byte = (this.toInt().inv()).toByte()\n/** Performs a bitwise AND operation between the two values. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.and(other: Short): Short = (this.toInt() and other.toInt()).toShort()\n/** Performs a bitwise OR operation between the two values. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.or(other: Short): Short = (this.toInt() or other.toInt()).toShort()\n/** Performs a bitwise XOR operation between the two values. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.xor(other: Short): Short = (this.toInt() xor other.toInt()).toShort()\n/** Inverts the bits in this value. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Short.inv(): Short = (this.toInt().inv()).toShort()\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.experimental\n/**\n * The experimental marker for type inference augmenting annotations.\n * Any usage of a declaration annotated with `@ExperimentalTypeInference` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalTypeInference::class)`,\n * or by using the compiler argument `-Xopt-in=kotlin.experimental.ExperimentalTypeInference`.\n */\n@Suppress("DEPRECATION")\n@Experimental(level = Experimental.Level.ERROR)\n@RequiresOptIn(level = RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n@SinceKotlin("1.3")\npublic annotation class ExperimentalTypeInference\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.internal\n/** Specifies that the corresponding type should be ignored during type inference.\n *\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class NoInfer\n/** Specifies that the constraint built for the type during type inference should be an equality one.\n *\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class Exact\n/** Specifies that a corresponding member has the lowest priority in overload resolution.\n *\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class LowPriorityInOverloadResolution\n/** Specifies that the corresponding member has the highest priority in overload resolution. Effectively this means that\n * an extension annotated with this annotation will win in overload resolution over a member with the same signature.\n *\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class HidesMembers\n/** The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).\n */\n

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*/\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal
annotation class OnlyInputTypes\n\n/**\n * Specifies that this function should not be called directly without
inlining\n */\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY,
AnnotationTarget.PROPERTY_GETTER,
AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class
InlineOnly\n\n/**\n * Specifies that this declaration can have dynamic receiver type.\n
*/\n@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class
DynamicExtension\n\n/**\n * The value of this parameter should be a property reference expression (`this::foo`),
referencing a `lateinit` property,\n * the backing field of which is accessible at the point where the corresponding
argument is passed.\n
*/\n@Target(AnnotationTarget.VALUE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\n@SinceK
otlin("1.2")\ninternal annotation class AccessibleLateinitPropertyLiteral\n\n/**\n * Specifies that this declaration is
only completely supported since the specified version.\n * \n * The Kotlin compiler of an earlier version is going to
report a diagnostic on usages of this declaration.\n * The diagnostic message can be specified with [message], or via
[errorCode] (takes less space, but might not be immediately clear\n * to the user). The diagnostic severity can be
specified with [level]: WARNING/ERROR mean that either a warning or an error\n * is going to be reported,
HIDDEN means that the declaration is going to be removed from resolution completely.\n * \n * [versionKind]
specifies which version should be compared with the [version] value, when compiling the usage of the annotated
declaration.\n * Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE_VERSION] was supported,
so the Kotlin compiler before 1.2 is going to\n * treat any [RequireKotlin] as if it requires the language version.
Since 1.2, the Kotlin compiler supports\n * [RequireKotlinVersionKind.LANGUAGE_VERSION],
[RequireKotlinVersionKind.COMPILER_VERSION] and [RequireKotlinVersionKind.API_VERSION].\n * If the
actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin),\n *
Kotlin 1.2 is going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a
requirement\n * on the language version.\n * \n * This annotation is erased at compile time; its arguments are stored
in a more compact form in the Kotlin metadata.\n */\n@Target(AnnotationTarget.CLASS,
AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR,
AnnotationTarget.TYPEALIAS)\n@Retention(AnnotationRetention.SOURCE)\n@Repeatable\n@SinceKotlin("1.
2")\ninternal annotation class RequireKotlin(\n    val version: String,\n    val message: String = "",\n    val level:
DeprecationLevel = DeprecationLevel.ERROR,\n    val versionKind: RequireKotlinVersionKind =
RequireKotlinVersionKind.LANGUAGE_VERSION,\n    val errorCode: Int = -1)\n\n/**\n * The kind of the
version that is required by [RequireKotlin].\n */\n@SinceKotlin("1.2")\ninternal enum class
RequireKotlinVersionKind {\n    LANGUAGE_VERSION,\n    COMPILER_VERSION,\n
API_VERSION,\n}\n\n/**\n * Specifies that this declaration is a part of special DSL, used for constructing
function's contract.\n */\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.2")\ninternal annotation
class ContractsDsl\n","/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Standard
property delegates.\n */\npublic object Delegates {\n    /**\n     * Returns a property delegate for a read/write
property with a non-`null` value that is initialized not during\n     * object construction time but at a later time.
Trying to read the property before the initial value has been\n     * assigned results in an exception.\n     * \n
     * @sample samples.properties.Delegates.notNullDelegate\n     */\n    public fun <T : Any> notNull():
ReadWriteProperty<Any?, T> = NotNullVar()\n\n    /**\n     * Returns a property delegate for a read/write property
that calls a specified callback function when changed.\n     * @param initialValue the initial value of the property.\n
     * @param onChange the callback which is called after the change of the property is made. The value of the
property\n     * has already been changed when this callback is invoked.\n     * \n     * @sample
samples.properties.Delegates.observableDelegate\n     */\n    public inline fun <T> observable(initialValue: T,

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crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit):\n
ReadWriteProperty<Any?, T> =\n    object : ObservableProperty<T>(initialValue) {\n        override fun
afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue, newValue)\n
    }\n\n    /**\n     * Returns a property delegate for a read/write property that calls a specified callback function when
changed,\n     * allowing the callback to veto the modification.\n     * @param initialValue the initial value of the
property.\n     * @param onChange the callback which is called before a change to the property value is attempted.\n
     * The value of the property hasn't been changed yet, when this callback is invoked.\n     * If the callback returns
`true` the value of the property is being set to the new value,\n     * and if the callback returns `false` the new value
is discarded and the property remains its old value.\n     *\n     * @sample
samples.properties.Delegates.vetoableDelegate\n     * @sample
samples.properties.Delegates.throwVetoableDelegate\n     */\n    public inline fun <T> vetoable(initialValue: T,
crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):\n
ReadWriteProperty<Any?, T> =\n    object : ObservableProperty<T>(initialValue) {\n        override fun
beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue,
newValue)\n    }\n\n    private class NotNullVar<T : Any>(): ReadWriteProperty<Any?, T> {\n        private var
value: T? = null\n        public override fun getValue(thisRef: Any?, property: KProperty<*>): T {\n            return value
?: throw IllegalStateException("\nProperty ${property.name} should be initialized before get.")\n        }\n        public
override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {\n            this.value = value\n        }\n    }\n\n    /**\n     * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
     */\n\n    package kotlin.properties\n    import kotlin.reflect.KProperty\n\n    /**\n     * Base interface that can be used for
implementing property delegates of read-only properties.\n     * This is provided only for convenience; you don't
have to extend this interface\n     * as long as your property delegate has methods with the same signatures.\n     *\n     * @param T the type of object which owns the delegated property.\n     * @param V the type of the property value.\n
     */\n    public fun interface ReadOnlyProperty<in T, out V> {\n        /**\n         * Returns the value of the property for the
given object.\n         * @param thisRef the object for which the value is requested.\n         * @param property the
metadata for the property.\n         * @return the property value.\n         */\n        public operator fun getValue(thisRef: T,
property: KProperty<*>): V\n    }\n\n    /**\n     * Base interface that can be used for implementing property delegates of
read-write properties.\n     * This is provided only for convenience; you don't have to extend this interface\n     * as
long as your property delegate has methods with the same signatures.\n     *\n     * @param T the type of object which
owns the delegated property.\n     * @param V the type of the property value.\n     */\n    public interface
ReadWriteProperty<in T, V> : ReadOnlyProperty<T, V> {\n        /**\n         * Returns the value of the property for the
given object.\n         * @param thisRef the object for which the value is requested.\n         * @param property the
metadata for the property.\n         * @return the property value.\n         */\n        public override operator fun
getValue(thisRef: T, property: KProperty<*>): V\n        /**\n         * Sets the value of the property for the given
object.\n         * @param thisRef the object for which the value is requested.\n         * @param property the metadata for
the property.\n         * @param value the value to set.\n         */\n        public operator fun setValue(thisRef: T, property:
KProperty<*>, value: V)\n    }\n\n    /**\n     * Base interface that can be used for implementing property delegate
providers.\n     * This is provided only for convenience; you don't have to extend this interface\n     * as long as your
delegate provider has a method with the same signature.\n     *\n     * @param T the type of object which owns the
delegated property.\n     * @param D the type of property delegates this provider provides.\n
     */\n    @SinceKotlin("1.4")\n    public fun interface PropertyDelegateProvider<in T, out D> {\n        /**\n         * Returns the
delegate of the property for the given object.\n         * This function can be used to extend the logic of creating
the object (e.g. perform validation checks)\n         * to which the property implementation is delegated.\n         *\n
         * @param thisRef the object for which property delegate is requested.\n         * @param property the metadata for the
property.\n         * @return the property delegate.\n         */\n        public operator fun provideDelegate(thisRef: T, property:
KProperty<*>): D\n    }\n\n    /**\n     * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be found in the

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license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Implements the core logic of a property delegate for a read/write property that calls callback functions when\n * changed.\n * @param initialValue the initial value of the property.\n */\npublic abstract class\nObservableProperty<V>(initialValue: V) : ReadWriteProperty<Any?, V> {\n    private var value = initialValue\n\n    /**\n     * The callback which is called before a change to the property value is attempted.\n     * The value of the\n     * property hasn't been changed yet, when this callback is invoked.\n     * If the callback returns `true` the value of the\n     * property is being set to the new value,\n     * and if the callback returns `false` the new value is discarded and the\n     * property remains its old value.\n     */\n    protected open fun beforeChange(property: KProperty<*>, oldValue: V,\n    newValue: V): Boolean = true\n\n    /**\n     * The callback which is called after the change of the property is made.\n     * The value of the property\n     * has already been changed when this callback is invoked.\n     */\n    protected open\n    fun afterChange(property: KProperty<*>, oldValue: V, newValue: V): Unit {}\n\n    public override fun\n    getValue(thisRef: Any?, property: KProperty<*>): V {\n        return value\n    }\n\n    public override fun\n    setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n        val oldValue = this.value\n        if\n        (!beforeChange(property, oldValue, value)) {\n            return\n        }\n        this.value = value\n        afterChange(property, oldValue, value)\n    }\n}\n\n"/\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin\n * Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\n * found in the license/LICENSE.txt file.\n */\n\n@file:Suppress("PackageDirectoryMismatch")\npackage\nkotlin\n\nimport kotlin.reflect.*\n\n/**\n * An extension operator that allows delegating a read-only property of type\n * [V]\n * to a property reference to a property of type [V] or its subtype.\n * @receiver A property reference to a\n * read-only or mutable property of type [V] or its subtype.\n * The reference is without a receiver, i.e. it either\n * references a top-level property or\n * has the receiver bound to it.\n * Example:\n * class Login(val\n * username: String)\n * val defaultLogin = Login("Admin")\n * val defaultUsername by defaultLogin::username\n * // equivalent to\n * val defaultUserName get() = defaultLogin.username\n */\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V>\nKProperty0<V>.getValue(thisRef: Any?, property: KProperty<*>): V {\n    return get()\n}\n\n/**\n * An extension\n * operator that allows delegating a mutable property of type [V]\n * to a property reference to a mutable property of\n * the same type [V].\n * @receiver A property reference to a mutable property of type [V].\n * The reference is\n * without a receiver, i.e. it either references a top-level property or\n * has the receiver bound to it.\n * Example:\n * class Login(val username: String, var incorrectAttemptCounter: Int = 0)\n * val defaultLogin =\n * Login("Admin")\n * var defaultLoginAttempts by defaultLogin::incorrectAttemptCounter\n * // equivalent to\n * var defaultLoginAttempts: Int\n * get() = defaultLogin.incorrectAttemptCounter\n * set(value) {\n *     defaultLogin.incorrectAttemptCounter = value\n * }\n */\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V>\nKMutableProperty0<V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n    set(value)\n}\n\n/**\n * An extension operator that allows delegating a read-only member or extension property of type [V]\n * to a\n * property reference to a member or extension property of type [V] or its subtype.\n * @receiver A property\n * reference to a read-only or mutable property of type [V] or its subtype.\n * The reference has an unbound receiver of\n * type [T].\n * Example:\n * class Login(val username: String)\n * val Login.user by\n * Login::username\n * // equivalent to\n * val Login.user get() = this.username\n */\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KProperty1<T,\nV>.getValue(thisRef: T, property: KProperty<*>): V {\n    return get(thisRef)\n}\n\n/**\n * An extension operator\n * that allows delegating a mutable member or extension property of type [V]\n * to a property reference to a member\n * or extension mutable property of the same type [V].\n * @receiver A property reference to a read-only or\n * mutable property of type [V] or its subtype.\n * The reference has an unbound receiver of type [T].\n * Example:\n * class Login(val username: String, var incorrectAttemptCounter: Int)\n * var Login.attempts\n * by Login::incorrectAttemptCounter\n * // equivalent to\n * var Login.attempts: Int\n * get() =\n * this.incorrectAttemptCounter\n * set(value) { this.incorrectAttemptCounter = value }\n */\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KMutableProperty1<T,

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V>.setValue(thisRef: T, property: KProperty<*>, value: V) {\n  set(thisRef, value)\n}", "/*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport
kotlin.math.nextDown\n\n/**\n * An abstract class that is implemented by random number generator algorithms.\n
*\n * The companion object [Random.Default] is the default instance of [Random].\n *\n * To get a seeded instance
of random generator use [Random] function.\n *\n * @sample samples.random.Randoms.defaultRandom\n
*\n @SinceKotlin("1.3")\npublic abstract class Random {\n\n  /**\n   * Gets the next random [bitCount] number
of bits.\n   *\n   * Generates an `Int` whose lower [bitCount] bits are filled with random values and the remaining
upper bits are zero.\n   *\n   * @param bitCount number of bits to generate, must be in range 0..32, otherwise the
behavior is unspecified.\n   *\n   * @sample samples.random.Randoms.nextBits\n   */\n  public abstract fun
nextBits(bitCount: Int): Int\n\n  /**\n   * Gets the next random `Int` from the random number generator.\n   *\n
* Generates an `Int` random value uniformly distributed between `Int.MIN_VALUE` and `Int.MAX_VALUE`
(inclusive).\n   *\n   * @sample samples.random.Randoms.nextInt\n   */\n  public open fun nextInt(): Int =
nextBits(32)\n\n  /**\n   * Gets the next random non-negative `Int` from the random number generator less than
the specified [until] bound.\n   *\n   * Generates an `Int` random value uniformly distributed between `0`
(inclusive) and the specified [until] bound (exclusive).\n   *\n   * @param until must be positive.\n   *\n   *
@throws IllegalArgumentException if [until] is negative or zero.\n   *\n   * @sample
samples.random.Randoms.nextIntFromUntil\n   */\n  public open fun nextInt(until: Int): Int = nextInt(0, until)\n\n
/**\n   * Gets the next random `Int` from the random number generator in the specified range.\n   *\n   *
Generates an `Int` random value uniformly distributed between the specified [from] (inclusive) and [until]
(exclusive) bounds.\n   *\n   * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n
*\n   * @sample samples.random.Randoms.nextIntFromUntil\n   */\n  public open fun nextInt(from: Int, until:
Int): Int {\n    checkRangeBounds(from, until)\n    val n = until - from\n    if (n > 0 || n == Int.MIN_VALUE)\n
{\n      val rnd = if (n and -n == n) {\n        val bitCount = fastLog2(n)\n        nextBits(bitCount)\n
      } else {\n        var v: Int\n        do {\n          val bits = nextInt().ushr(1)\n          v = bits % n\n
        } while (bits - v + (n - 1) < 0)\n        v\n      }\n      return from + rnd\n    } else {\n      while
(true) {\n        val rnd = nextInt()\n        if (rnd in from until until) return rnd\n      }\n    }\n  }\n\n
/**\n   * Gets the next random `Long` from the random number generator.\n   *\n   * Generates a `Long` random
value uniformly distributed between `Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).\n   *\n   *
@sample samples.random.Randoms.nextLong\n   */\n  public open fun nextLong(): Long =
nextInt().toLong().shl(32) + nextInt()\n\n  /**\n   * Gets the next random non-negative `Long` from the random
number generator less than the specified [until] bound.\n   *\n   * Generates a `Long` random value uniformly
distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n   *\n   * @param until must be
positive.\n   *\n   * @throws IllegalArgumentException if [until] is negative or zero.\n   *\n   * @sample
samples.random.Randoms.nextLongFromUntil\n   */\n  public open fun nextLong(until: Long): Long =
nextLong(0, until)\n\n  /**\n   * Gets the next random `Long` from the random number generator in the specified
range.\n   *\n   * Generates a `Long` random value uniformly distributed between the specified [from] (inclusive)
and [until] (exclusive) bounds.\n   *\n   * @throws IllegalArgumentException if [from] is greater than or equal to
[until].\n   *\n   * @sample samples.random.Randoms.nextLongFromUntil\n   */\n  public open fun
nextLong(from: Long, until: Long): Long {\n    checkRangeBounds(from, until)\n    val n = until - from\n
if (n > 0) {\n      val rnd: Long\n      if (n and -n == n) {\n        val nLow = n.toInt()\n        val nHigh
= (n ushr 32).toInt()\n        rnd = when {\n          nLow != 0 -> {\n            val bitCount =
fastLog2(nLow)\n            // toUInt().toLong()\n            nextBits(bitCount).toLong() and
0xFFFF_FFFF\n          }\n          nHigh == 1 ->{\n            // toUInt().toLong()\n
nextInt().toLong() and 0xFFFF_FFFF\n          } else -> {\n            val bitCount = fastLog2(nHigh)\n
            nextBits(bitCount).toLong().shl(32) + (nextInt().toLong() and 0xFFFF_FFFF)\n          }\n
        }\n      } else {\n        var v: Long\n        do {\n          val bits = nextLong().ushr(1)\n
v = bits % n\n        } while (bits - v + (n - 1) < 0)\n        rnd = v\n      }\n      return from + rnd\n
}

```

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} else {\n        while (true) {\n                val rnd = nextLong()\n                if (rnd in from until until) return rnd\n        }\n    }\n}

/**\n * Gets the next random [Boolean] value.\n *\n * @sample\n samples.random.Randoms.nextBoolean\n *\n public open fun nextBoolean(): Boolean = nextBits(1) != 0\n\n /**\n * Gets the next random [Double] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n *\n * @sample\n samples.random.Randoms.nextDouble\n *\n public open fun nextDouble(): Double =\n doubleFromParts(nextBits(26), nextBits(27))\n\n /**\n * Gets the next random non-negative `Double` from the\n random number generator less than the specified [until] bound.\n *\n * Generates a `Double` random value\n uniformly distributed between 0 (inclusive) and [until] (exclusive).\n *\n * @throws IllegalArgumentException\n if [until] is negative or zero.\n *\n * @sample\n samples.random.Randoms.nextDoubleFromUntil\n *\n public open fun nextDouble(until: Double): Double = nextDouble(0.0, until)\n\n /**\n * Gets the next random\n `Double` from the random number generator in the specified range.\n *\n * Generates a `Double` random value\n uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * [from]\n and [until] must be finite otherwise the behavior is unspecified.\n *\n * @throws IllegalArgumentException\n if [from] is greater than or equal to [until].\n *\n * @sample\n samples.random.Randoms.nextDoubleFromUntil\n *\n public open fun nextDouble(from: Double, until: Double): Double {\n        checkRangeBounds(from, until)\n        val size = until - from\n        val r = if (size.isInfinite() && from.isFinite() && until.isFinite()) {\n                val r1 =\n nextDouble() * (until / 2 - from / 2)\n                from + r1 + r1\n        } else {\n                from + nextDouble() * size\n        }\n        return if (r >= until) until.nextDown() else r\n    }\n\n /**\n * Gets the next random [Float] value\n uniformly distributed between 0 (inclusive) and 1 (exclusive).\n *\n * @sample\n samples.random.Randoms.nextFloat\n *\n public open fun nextFloat(): Float = nextBits(24) / (1 shl\n 24).toFloat()\n\n /**\n * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and\n ending [toIndex] exclusive\n * with random bytes.\n *\n * @return [array] with the subrange filled with\n random bytes.\n *\n * @sample\n samples.random.Randoms.nextBytes\n *\n public open fun\n nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {\n        require(fromIndex in\n 0..array.size && toIndex in 0..array.size) { \"fromIndex ($fromIndex) or toIndex ($toIndex) are out of range:\n 0..${array.size}.\" }\n        require(fromIndex <= toIndex) { \"fromIndex ($fromIndex) must be not greater than\n toIndex ($toIndex).\" }\n        val steps = (toIndex - fromIndex) / 4\n        var position = fromIndex\n        repeat(steps) {\n                val v = nextInt()\n                array[position] = v.toByte()\n                array[position + 1] =\n v.ushr(8).toByte()\n                array[position + 2] = v.ushr(16).toByte()\n                array[position + 3] =\n v.ushr(24).toByte()\n                position += 4\n        }\n        val remainder = toIndex - position\n        val vr =\n nextBits(remainder * 8)\n        for (i in 0 until remainder) {\n                array[position + i] = vr.ushr(i * 8).toByte()\n        }\n        return array\n    }\n\n /**\n * Fills the specified byte [array] with random bytes and returns it.\n *\n * @return [array] filled with random bytes.\n *\n * @sample\n samples.random.Randoms.nextBytes\n *\n public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)\n\n /**\n * Creates a\n byte array of the specified [size], filled with random bytes.\n *\n * @sample\n samples.random.Randoms.nextBytes\n *\n public open fun nextBytes(size: Int): ByteArray =\n nextBytes(ByteArray(size))\n\n /**\n * The default random number generator.\n *\n * On JVM this\n generator is thread-safe, its methods can be invoked from multiple threads.\n *\n * @sample\n samples.random.Randoms.defaultRandom\n *\n companion object Default : Random(), Serializable {\n        private val defaultRandom: Random = defaultPlatformRandom()\n        private object Serialized : Serializable {\n                private const val serialVersionUID = 0L\n                private fun readResolve(): Any = Random()\n        }\n        private fun writeReplace(): Any = Serialized\n        override fun nextBits(bitCount: Int): Int =\n defaultRandom.nextBits(bitCount)\n        override fun nextInt(): Int = defaultRandom.nextInt()\n        override fun\n nextInt(until: Int): Int = defaultRandom.nextInt(until)\n        override fun nextInt(from: Int, until: Int): Int =\n defaultRandom.nextInt(from, until)\n        override fun nextLong(): Long = defaultRandom.nextLong()\n        override fun\n nextLong(until: Long): Long = defaultRandom.nextLong(until)\n        override fun nextLong(from:\n Long, until: Long): Long = defaultRandom.nextLong(from, until)\n        override fun nextBoolean(): Boolean =\n defaultRandom.nextBoolean()\n        override fun nextDouble(): Double = defaultRandom.nextDouble()\n
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override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)\n    override fun
nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)\n\n    override fun
nextFloat(): Float = defaultRandom.nextFloat()\n\n    override fun nextBytes(array: ByteArray): ByteArray =
defaultRandom.nextBytes(array)\n    override fun nextBytes(size: Int): ByteArray =
defaultRandom.nextBytes(size)\n    override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int):
ByteArray =\n        defaultRandom.nextBytes(array, fromIndex, toIndex)\n    }\n}\n\n/**\n * Returns a repeatable
random number generator seeded with the given [seed] `Int` value.\n * Two generators with the same seed
produce the same sequence of values within the same version of Kotlin runtime.\n * Note: Future versions of
Kotlin may change the algorithm of this seeded number generator so that it will return\n * a sequence of values
different from the current one for a given seed.\n * On JVM the returned generator is NOT thread-safe. Do not
invoke it from multiple threads without proper synchronization.\n * @sample
samples.random.Randoms.seededRandom\n */\n\n@SinceKotlin("1.3")\npublic fun Random(seed: Int): Random =
XorWowRandom(seed, seed.shr(31))\n\n/**\n * Returns a repeatable random number generator seeded with the
given [seed] `Long` value.\n * Two generators with the same seed produce the same sequence of values within
the same version of Kotlin runtime.\n * Note: Future versions of Kotlin may change the algorithm of this
seeded number generator so that it will return\n * a sequence of values different from the current one for a
given seed.\n * On JVM the returned generator is NOT thread-safe. Do not invoke it from multiple threads without
proper synchronization.\n * @sample samples.random.Randoms.seededRandom\n */\n\n@SinceKotlin("1.3")\npublic fun Random(seed: Long): Random = XorWowRandom(seed.toInt(),
seed.shr(32).toInt())\n\n/**\n * Gets the next random `Int` from the random number generator in the specified
[range].\n * Generates an `Int` random value uniformly distributed in the specified [range]:\n * from `range.start`
inclusive to `range.endInclusive` inclusive.\n * @throws IllegalArgumentException if [range] is empty.\n */\n\n@SinceKotlin("1.3")\npublic fun Random.nextInt(range: IntRange): Int = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < Int.MAX_VALUE ->
nextInt(range.first, range.last + 1)\n    range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1\n
else -> nextInt()\n}\n\n/**\n * Gets the next random `Long` from the random number generator in the specified
[range].\n * Generates a `Long` random value uniformly distributed in the specified [range]:\n * from
`range.start` inclusive to `range.endInclusive` inclusive.\n * @throws IllegalArgumentException if [range] is
empty.\n */\n\n@SinceKotlin("1.3")\npublic fun Random.nextLong(range: LongRange): Long = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last <
Long.MAX_VALUE -> nextLong(range.first, range.last + 1)\n    range.first > Long.MIN_VALUE ->
nextLong(range.first - 1, range.last) + 1\n    else -> nextLong()\n}\n\n\ninternal expect fun
defaultPlatformRandom(): Random\n\ninternal expect fun doubleFromParts(hi26: Int, low27: Int): Double\n\ninternal
fun fastLog2(value: Int): Int = 31 - value.countLeadingZeroBits()\n\n/**\n * Takes upper [bitCount] bits (0..32) from
this number.\n */\n\ninternal fun Int.takeUpperBits(bitCount: Int): Int =\n    this.ushr(32 - bitCount) and (-
bitCount).shr(31)\n\ninternal fun checkRangeBounds(from: Int, until: Int) = require(until > from) {\n
    boundsErrorMessage(from, until)\n}\n\ninternal fun checkRangeBounds(from: Long, until: Long) = require(until >
from) {\n    boundsErrorMessage(from, until)\n}\n\ninternal fun checkRangeBounds(from: Double, until: Double) =
require(until > from) {\n    boundsErrorMessage(from, until)\n}\n\ninternal fun boundsErrorMessage(from: Any, until:
Any) = "Random range is empty: [$from, $until]."\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\n/**\n * Gets the next random [UInt]
from the random number generator.\n * Generates a [UInt] random value uniformly distributed between
[UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).\n */\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextUInt(): UInt = nextInt().toUInt()\n\n/**\n * Gets the next random [UInt] from the random number
generator less than the specified [until] bound.\n * Generates a [UInt] random value uniformly distributed
between `0` (inclusive) and the specified [until] bound (exclusive).\n * @throws IllegalArgumentException if

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[until] is zero.\n *\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextIntUntil(until: UInt): UInt = nextUInt(0u, until)\n\n/**\n * Gets the next random [UInt] from the random
number generator in the specified range.\n *\n * Generates a [UInt] random value uniformly distributed between the
specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is
greater than or equal to [until].\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextIntUInt(from: UInt, until: UInt): UInt {\n    checkUIntRangeBounds(from, until)\n\n    val signedFrom =
from.toInt() xor Int.MIN_VALUE\n    val signedUntil = until.toInt() xor Int.MIN_VALUE\n\n    val signedResult =
nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE\n    return signedResult.toUInt()\n}\n\n/**\n * Gets the next
random [UInt] from the random number generator in the specified [range].\n *\n * Generates a [UInt] random value
uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n
*\n * @throws IllegalArgumentException if [range] is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextIntUInt(range: UIntRange): UInt = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < UInt.MAX_VALUE ->
nextIntUInt(range.first, range.last + 1u)\n    range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) +
1u\n    else -> nextUInt()\n}\n\n/**\n * Gets the next random [ULong] from the random number generator.\n *\n *
Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and
[ULong.MAX_VALUE] (inclusive).\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(): ULong = nextLong().toULong()\n\n/**\n * Gets the next random [ULong] from the random
number generator less than the specified [until] bound.\n *\n * Generates a [ULong] random value uniformly
distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws
IllegalArgumentException if [until] is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(until: ULong): ULong = nextULong(0uL, until)\n\n/**\n * Gets the next random [ULong] from
the random number generator in the specified range.\n *\n * Generates a [ULong] random value uniformly
distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws
IllegalArgumentException if [from] is greater than or equal to [until].\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(from: ULong, until: ULong): ULong {\n    checkULongRangeBounds(from, until)\n\n    val
signedFrom = from.toLong() xor Long.MIN_VALUE\n    val signedUntil = until.toLong() xor
Long.MIN_VALUE\n\n    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\n    return
signedResult.toULong()\n}\n\n/**\n * Gets the next random [ULong] from the random number generator in
the specified [range].\n *\n * Generates a [ULong] random value uniformly distributed in the specified [range]:\n *
from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range]
is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(range: ULongRange): ULong = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < ULong.MAX_VALUE -
> nextULong(range.first, range.last + 1u)\n    range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u,
range.last) + 1u\n    else -> nextULong()\n}\n\n/**\n * Fills the specified unsigned byte [array] with random bytes
and returns it.\n *\n * @return [array] filled with random bytes.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray):
UByteArray {\n    nextBytes(array.asByteArray())\n    return array\n}\n\n/**\n * Creates an unsigned byte array of
the specified [size], filled with random bytes.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(size: Int): UByteArray =
nextBytes(size).asUByteArray()\n\n/**\n * Fills a subrange of the specified `UByte` [array] starting from
[fromIndex] inclusive and ending [toIndex] exclusive with random
UBytes.\n *\n * @return [array] with the subrange filled with random bytes.\n

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*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Random.nextUBytes(array: UByteArray,
fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {
    nextBytes(array.asByteArray(), fromIndex,
toIndex)
    return array
}

internal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until >
from) { boundsErrorMessage(from, until) }
internal fun checkULongRangeBounds(from: ULong, until: ULong) =
require(until > from) { boundsErrorMessage(from, until) }

/*
 * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.
 */
package kotlin.random

/**
 * Random number generator,
using Marsaglia's "xorwow" algorithm
 * Cycles after 2^192 - 2^32 repetitions.
 * For more details, see
Marsaglia, George (July 2003). "Xorshift RNGs". Journal of Statistical Software. 8 (14).
doi:10.18637/jss.v008.i14
 * Available at https://www.jstatsoft.org/v08/i14/paper
 */
internal class
XorWowRandom internal constructor(
    private var x: Int,
    private var y: Int,
    private var z: Int,
    private
var w: Int,
    private var v: Int,
    private var addend: Int) : Random(), Serializable {
    internal
constructor(seed1: Int, seed2: Int) :
        this(seed1, seed2, 0, 0, seed1.inv(), (seed1 shl 10) xor (seed2 ushr
4))
    init {
        require((x or y or z or w or v) != 0) { "Initial state must have at least one non-zero element."
    }
    // some trivial seeds can produce several values with zeroes in upper bits, so we discard first 64
repeat(64) { nextInt() }
    override fun nextInt(): Int {
        // Equivalent to the xorwow algorithm
        //
        // From Marsaglia, G. 2003. Xorshift RNGs. J. Statis. Soft. 8, 14, p. 5
        var t = x
        t = t xor (t ushr 2)
        x
= y
        y = z
        z = w
        val v0 = v
        w = v0
        t = (t xor (t shl 1)) xor v0 xor (v0 shl 4)
        v =
t
        addend += 362437
        return t + addend
    }
    override fun nextBits(bitCount: Int): Int =
nextInt().takeUpperBits(bitCount)
    private companion object {
        private const val serialVersionUID: Long
= 0L
    }
}

/*
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 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("RangesKt")
package
kotlin.ranges

/**
 * Represents a range of [Comparable] values.
 */
private open class ComparableRange<T> :
Comparable<T>> {
    override val start: T,
    override val endInclusive: T) : ClosedRange<T> {
        override
fun equals(other: Any?): Boolean {
            return other is ComparableRange<*> && (isEmpty() && other.isEmpty()
||
start == other.start && endInclusive == other.endInclusive)
        }
        override fun hashCode(): Int
{
            return if (isEmpty()) -1 else 31 * start.hashCode() + endInclusive.hashCode()
        }
        override fun
toString(): String = "$start..$endInclusive"
    }

    /**
     * Creates a range from this [Comparable] value to the
specified [that] value.
     * This value needs to be smaller than or equal to [that] value, otherwise the returned
range will be empty.
     * @sample samples.ranges.Ranges.rangeFromComparable
     */
    public operator fun <T> :
Comparable<T>> T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)

    /**
     * Represents a
range of floating point numbers.
     * Extends [ClosedRange] interface providing custom operation
[lessThanOrEquals] for comparing values of range domain type.
     * This interface is implemented by floating
point ranges returned by [Float.rangeTo] and [Double.rangeTo] operators to
achieve IEEE-754 comparison order
instead of total order of floating point numbers.
     */
    @SinceKotlin("1.1")
    public interface
ClosedFloatingPointRange<T> : Comparable<T>> : ClosedRange<T> {
        override fun contains(value: T): Boolean
= lessThanOrEquals(start, value) && lessThanOrEquals(value, endInclusive)
        override fun isEmpty(): Boolean =
!lessThanOrEquals(start, endInclusive)
    }

    /**
     * Compares two values of range domain type and returns true
if first is less than or equal to second.
     */
    fun lessThanOrEquals(a: T, b: T): Boolean
}

/**
 * A
closed range of values of type `Double`.
     * Numbers are compared with the ends of this range according to
IEEE-754.
     */
private class ClosedDoubleRange(
    start: Double,
    endInclusive: Double) :
ClosedFloatingPointRange<Double> {
    private val _start = start
    private val _endInclusive = endInclusive
    override val start: Double get() = _start
    override val endInclusive: Double get() = _endInclusive
    override
fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b
    override fun contains(value: Double): Boolean
= value >= _start && value <= _endInclusive
    override fun isEmpty(): Boolean = !(_start <= _endInclusive)
    override fun equals(other: Any?): Boolean {
        return other is ClosedDoubleRange && (isEmpty() &&
other.isEmpty() ||
_start == other._start && _endInclusive == other._endInclusive)
    }
    override

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fun hashCode(): Int {
    return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()
}
override fun toString(): String = "$_start..$_endInclusive"
}

@sample samples.ranges.Ranges.rangeFromDouble
@SinceKotlin("1.1")
public operator fun Double.rangeTo(that: Double): ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)

A closed range of values of type `Float`.
Numbers are compared with the ends of this range according to IEEE-754.

private class ClosedFloatRange(
    start: Float,
    endInclusive: Float
) : ClosedFloatingPointRange<Float> {
    private val _start = start
    private val _endInclusive = endInclusive
    override val start: Float get() = _start
    override val endInclusive: Float get() = _endInclusive
    override fun lessThanOrEquals(a: Float, b: Float): Boolean = a <= b
    override fun contains(value: Float): Boolean = value >= _start && value <= _endInclusive
    override fun isEmpty(): Boolean = !(_start <= _endInclusive)
    override fun equals(other: Any?): Boolean {
        return other is ClosedFloatRange && (isEmpty() && other.isEmpty() ||
            _start == other._start && _endInclusive == other._endInclusive)
    }
    override fun hashCode(): Int {
        return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()
    }
    override fun toString(): String = "$_start..$_endInclusive"
}

@sample samples.ranges.Ranges.rangeFromFloat
@SinceKotlin("1.1")
public operator fun Float.rangeTo(that: Float): ClosedFloatingPointRange<Float> = ClosedFloatRange(this, that)

Returns `true` if this iterable range contains the specified [element].
Always returns `false` if the [element] is `null`.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline operator fun <T, R> R.contains(element: T?): Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =
    element != null && contains(element)

internal fun checkStepIsPositive(isPositive: Boolean, step: Number) {
    if (!isPositive) throw IllegalArgumentException("Step must be positive, was: $step.")
}

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@file:kotlin.jvm.JvmName("KClasses")
@file:Suppress("UNCHECKED_CAST")
package kotlin.reflect
import kotlin.internal.LowPriorityInOverloadResolution

Casts the given [value] to the class represented by this [KClass] object.
Throws an exception if the value is `null` or if it is not an instance of this class.
This is an experimental function that behaves as a similar function from kotlin.reflect.full on JVM.

@see [KClass.isInstance]
@see [KClass.safeCast]

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@LowPriorityInOverloadResolution
fun <T : Any> KClass<T>.cast(value: Any?): T {
    if (!isInstance(value)) throw ClassCastException("Value cannot be cast to $qualifiedOrSimpleName")
    return value as T
}

// TODO: replace with qualifiedName when it is fully supported in K/JS
internal expect val KClass<*>.qualifiedOrSimpleName: String?

Casts the given [value] to the class represented by this [KClass] object.
Returns `null` if the value is `null` or if it is not an instance of this class.
This is an experimental function that behaves as a similar function from kotlin.reflect.full on JVM.

@see [KClass.isInstance]
@see [KClass.cast]

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@LowPriorityInOverloadResolution
fun <T : Any> KClass<T>.safeCast(value: Any?): T? {
    return if (isInstance(value)) value as T else null
}

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package kotlin.reflect
import kotlin.jvm.JvmField
import kotlin.jvm.JvmStatic

Represents a type projection. Type projection is usually the argument to another type in a type usage.
For example, in the type `Array<out Number>`, `out Number` is the covariant projection of the type represented by the class `Number`.
Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.
See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections) for more information.

@SinceKotlin("1.1")
public data class KTypeProjection constructor(
    /* The use-site variance specified in the projection, or `null` if this is a star projection.

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*/\n public val variance: KVariance?,\n /**\n * The type specified in the projection, or `null` if this is a star
projection.\n */\n public val type: KType?()\n {\n\n init {\n require((variance == null) == (type == null))
{\n if (variance == null)\n \"Star projection must have no type specified.\"\n else\n
\"The projection variance $variance requires type to be specified.\"\n }\n }\n\n override fun toString():
String = when (variance) {\n null -> \"*\n KVariance.INVARIANT -> type.toString()\n
KVariance.IN -> \"in $type\"\n KVariance.OUT -> \"out $type\"\n }\n\n public companion object {\n //
provided for compiler access\n @JvmField\n @PublishedApi\n internal val star: KTypeProjection =
KTypeProjection(null, null)\n\n /**\n * Star projection, denoted by the `*` character.\n * For example,
in the type `KClass<*>`, `*` is the star projection.\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\n * for more
information.\n */\n public val STAR: KTypeProjection get() = star\n\n /**\n * Creates an
invariant projection of a given type. Invariant projection is just the type itself,\n * without any use-site variance
modifiers applied to it.\n * For example, in the type `Set<String>`, `String` is an invariant projection of the type
represented by the class `String`.\n */\n @JvmStatic\n public fun invariant(type: KType):
KTypeProjection =\n KTypeProjection(KVariance.INVARIANT, type)\n\n /**\n * Creates a
contravariant projection of a given type, denoted by the `in` modifier applied to a type.\n * For example, in the
type `MutableList<in Number>`, `in Number` is a contravariant projection of the type of class `Number`.\n */\n
\n @JvmStatic\n public fun contravariant(type: KType): KTypeProjection =\n
KTypeProjection(KVariance.IN, type)\n\n /**\n * Creates a covariant projection of a given type, denoted
by the `out` modifier applied to a type.\n * For example, in the type `Array<out Number>`, `out Number` is a
covariant projection of the type of class `Number`.\n */\n @JvmStatic\n public fun covariant(type:
KType): KTypeProjection =\n KTypeProjection(KVariance.OUT, type)\n\n }\n\n }", /*\n * Copyright 2010-
2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n *
Represents variance applied to a type parameter on the declaration site (*declaration-site variance*),\n * or to a type
in a projection (*use-site variance*).\n */\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/generics.html#variance)\n * for more information.\n */\n *
@see [KTypeParameter.variance]\n * @see [KTypeProjection]\n */\n @SinceKotlin("1.1")\nenum class KVariance
{\n /**\n * The affected type parameter or type is *invariant*, which means it has no variance applied to it.\n
*/\n INVARIANT,\n\n /**\n * The affected type parameter or type is *contravariant*. Denoted by the `in`
modifier in the source code.\n */\n IN,\n\n /**\n * The affected type parameter or type is *covariant*.
Denoted by the `out` modifier in the source code.\n */\n OUT,\n\n }", /*\n * Copyright 2010-2019 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n * Returns a runtime
representation of the given reified type [T] as an instance of [KType].\n */\n * Note that on JVM, the created type has
no annotations ([KType.annotations] returns an empty list)\n * even if the type in the source code is annotated.
Support for type annotations might be added in a future version.\n
\n */\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class)\n public inline fun <reified T>
typeOf(): KType =\n throw UnsupportedOperationException("This function is implemented as an intrinsic on all
supported platforms.")\n\n }", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
\n */\n\n @file:kotlin.jvm.JvmMultifileClass\n @file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\n\n/**\n * An object to which char sequences and values can be appended.\n */\n\nexpect interface
Appendable {\n /**\n * Appends the specified character [value] to this Appendable and returns this instance.\n
*/\n * @param value the character to append.\n */\n fun append(value: Char): Appendable\n\n /**\n *
Appends the specified character sequence [value] to this Appendable and returns this instance.\n */\n * @param
value the character sequence to append. If [value] is `null`, then the four characters `\"null\"` are appended to this

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Appendable.\n * fun append(value: CharSequence?): Appendable\n\n /**\n * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.\n * @param value the character sequence from which a subsequence is appended. If [value] is `null`,\n * then characters are appended as if [value] contained the four characters `\\null`.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n */\n fun append(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable\n}\n\n/**\n * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.\n * @param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n */\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T : Appendable> T.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): T {\n\n    @Suppress("UNCHECKED_CAST")\n    return append(value, startIndex, endIndex) as T\n}\n\n/**\n * Appends all arguments to the given [Appendable].\n */\npublic fun <T : Appendable> T.append(vararg value: CharSequence?): T {\n    for (item in value)\n        append(item)\n    return this\n}\n\n/**\n * Appends a line feed character (`\\n`) to this Appendable. *\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(): Appendable = append("\\n")\n\n/**\n * Appends value to the given Appendable and a line feed character (`\\n`) after it. *\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(value: CharSequence?): Appendable = append(value).appendLine()\n\n/**\n * Appends value to the given Appendable and a line feed character (`\\n`) after it. *\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(value: Char): Appendable = append(value).appendLine()\n\ninternal fun <T> Appendable.appendElement(element: T, transform: ((T) -> CharSequence)?) {\n    when {\n        transform != null -> append(transform(element))\n        element is CharSequence -> append(element)\n        element is Char -> append(element)\n        else -> append(element.toString())\n    }\n}\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage kotlin.text\n\n/**\n * Trims leading whitespace characters followed by [marginPrefix] from every line of a source string and removes\n * the first and the last lines if they are blank (notice difference blank vs empty).\n * Doesn't affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.\n * Doesn't preserve the original line endings.\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\n * @sample samples.text.Strings.trimMargin\n * @see trimIndent\n * @see kotlin.text.isWhitespace\n */\npublic fun String.trimMargin(marginPrefix: String = "|"): String =\n    replaceIndentByMargin("|", marginPrefix)\n\n/**\n * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent].\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\n */\npublic fun String.replaceIndentByMargin(newIndent: String = "|", marginPrefix: String = "|"): String {\n    require(marginPrefix.isNotBlank()) { "marginPrefix must be non-blank string." }\n    val lines = lines()\n    return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), {\n        line -> val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }\n        when {\n            firstNonWhitespaceIndex == -1 -> null\n            line.startsWith(marginPrefix, firstNonWhitespaceIndex) -> line.substring(firstNonWhitespaceIndex + marginPrefix.length)\n            else -> null\n        }\n    })\n}\n\n/**\n * Detects a common minimal indent of all the input lines, removes it from every line and also removes the first and the last\n * lines if they are blank (notice difference blank vs empty).\n * Note that blank lines do not affect the detected indent level.\n * In case if there are non-blank lines with no leading

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whitespace characters (no indent at all) then the\n * common indent is 0, and therefore this function doesn't change
the indentation.\n * \n * Doesn't preserve the original line endings.\n * \n * @sample
samples.text.Strings.trimIndent\n * @see trimMargin\n * @see kotlin.text.isBlank\n * \npublic fun
String.trimIndent(): String = replaceIndent("\\")\n\n/**\n * Detects a common minimal indent like it does
[trimIndent] and replaces it with the specified [newIndent].\n * \npublic fun String.replaceIndent(newIndent: String
= "\\"): String {\n    val lines = lines()\n    val minCommonIndent = lines\n        .filter(String::isNotBlank)\n
.map(String::indentWidth)\n        .minOrNull() ?: 0\n    return lines.reindent(length + newIndent.length *
lines.size, getIndentFunction(newIndent), { line -> line.drop(minCommonIndent) })\n}\n\n/**\n * Prepends [indent]
to every line of the original string.\n * \n * Doesn't preserve the original line endings.\n * \npublic fun
String.prependIndent(indent: String = "\n\n"): String =\n    lineSequence()\n        .map {\n            when {\n
it.isBlank() -> {\n                when {\n                    it.length < indent.length -> indent\n                        else -> it\n
                }\n            }\n            else -> indent + it\n        }\n        .joinToString("\\n")\n\nprivate fun
String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }\n\nprivate fun
getIndentFunction(indent: String) = when {\n    indent.isEmpty() -> { line: String -> line }\n    else -> { line: String -
> indent + line }\n}\n\nprivate inline fun List<String>.reindent(\n    resultSizeEstimate: Int,\n    indentAddFunction:
(String) -> String,\n    indentCutFunction: (String) -> String?\n): String {\n    val lastIndex = lastIndex\n    return
mapIndexedNotNull { index, value ->\n        if ((index == 0 || index == lastIndex) && value.isBlank())\n            null\n        else\n            indentCutFunction(value)?.let(indentAddFunction)?: value\n    }\n
.joinTo(StringBuilder(resultSizeEstimate), "\\n")\n    .toString()\n}\n\n",/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n * \npackage kotlin.text\n\n/**\n * Defines names for
Unicode symbols used in proper Typography.\n * \npublic object Typography {\n    /** The character &#x22;
\u2013 quotation mark *\n    public const val quote: Char = "\u0022"\n    /** The character &#x24; \u2013 dollar
sign *\n    public const val dollar: Char = "\u0024"\n    /** The character &#x26; \u2013 ampersand *\n    public
const val amp: Char = "\u0026"\n    /** The character &#x3C; \u2013 less-than sign *\n    public const val less:
Char = "\u003C"\n    /** The character &#x3E; \u2013 greater-than sign *\n    public const val greater: Char =
"\u003E"\n    /** The non-breaking space character *\n    public const val nbsp: Char = "\u00A0"\n    /** The
character &#xD7; *\n    public const val times: Char = "\u00D7"\n    /** The character &#xA2; *\n    public const
val cent: Char = "\u00A2"\n    /** The character &#xA3; *\n    public const val pound: Char = "\u00A3"\n    /** The
character &#xA7; *\n    public const val section: Char = "\u00A7"\n    /** The character &#xA9; *\n    public const
val copyright: Char = "\u00A9"\n    /** The character &#xAB; *\n    @SinceKotlin("1.6")\n    public const val
leftGuillemet: Char = "\u00AB"\n    /** The character &#xBB; *\n    @SinceKotlin("1.6")\n    public const val
rightGuillemet: Char = "\u00BB"\n    /** The character &#xAE; *\n    public const val registered: Char =
"\u00AE"\n    /** The character &#xB0; *\n    public const val degree: Char = "\u00B0"\n    /** The character
&#xB1; *\n    public const val plusMinus: Char = "\u00B1"\n    /** The character &#xB6; *\n    public const val
paragraph: Char = "\u00B6"\n    /** The character &#xB7; *\n    public const val middleDot: Char = "\u00B7"\n
/** The character &#xBD; *\n    public const val half: Char = "\u00BD"\n    /** The character &#x2013; *\n
public const val ndash: Char = "\u2013"\n    /** The character &#x2014; *\n    public const val mdash: Char =
"\u2014"\n    /** The character &#x2018; *\n    public const val leftSingleQuote: Char = "\u2018"\n    /** The
character &#x2019; *\n    public const val rightSingleQuote: Char = "\u2019"\n    /** The character &#x201A; *\n
public const val lowSingleQuote: Char = "\u201A"\n    /** The character &#x201C; *\n    public const val
leftDoubleQuote: Char = "\u201C"\n    /** The character &#x201D; *\n    public const val rightDoubleQuote: Char
= "\u201D"\n    /** The character &#x201E; *\n    public const val lowDoubleQuote: Char = "\u201E"\n    /** The
character &#x2020; *\n    public const val dagger: Char = "\u2020"\n    /** The character &#x2021; *\n    public
const val doubleDagger: Char = "\u2021"\n    /** The character &#x2022; *\n    public const val bullet: Char =
"\u2022"\n    /** The character &#x2026; *\n    public const val ellipsis: Char = "\u2026"\n    /** The character
&#x2032; *\n    public const val prime: Char = "\u2032"\n    /** The character &#x2033; *\n    public const val
doublePrime: Char = "\u2033"\n    /** The character &#x20AC; *\n    public const val euro: Char = "\u20AC"

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DurationUnit.SECONDS\n          else -> throw IllegalArgumentException("\Invalid duration ISO time unit:
$isoChar")\n          }\n          }","/**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * This annotation marks the experimental preview of the standard library API for measuring time and working with
durations.\n */\n * > Note that this API is in a preview state and has a very high chance of being changed in the
future.\n * Do not use it if you develop a library since your library will become binary incompatible\n * with the
future versions of the standard library.\n */\n * Any usage of a declaration annotated with `@ExperimentalTime`
must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g.
`@OptIn(ExperimentalTime::class)`,\n * or by using the compiler argument `-Xopt-
in=kotlin.time.ExperimentalTime`. \n */\n\n@Suppress("\DEPRECATION")\n@Experimental(level =
Experimental.Level.ERROR)\n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(\n
CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n
VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n
PROPERTY_SETTER,\n TYPEALIAS)\n\n@SinceKotlin("1.3")\n\npublic annotation class
ExperimentalTime\n","/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n/**\n * A source of time for measuring time intervals.\n
*\n * The only operation provided by the time source is [markNow]. It returns a [TimeMark], which can be used to
query the elapsed time later.\n */\n * @see [measureTime]\n * @see [measureTimedValue]\n
*\n */\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\npublic interface TimeSource {\n    /**\n     * Marks a point in
time on this time source.\n     *\n     * The returned [TimeMark] instance encapsulates the captured time point and
allows querying\n     * the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.\n     */\n
\n    public fun markNow(): TimeMark\n\n    /**\n     * The most precise time source available in the platform.\n     *\n
     * This time source returns its readings from a source of monotonic time when it is available in a target platform,\n
     * and resorts to a non-monotonic time source otherwise.\n     */\n\n    public object Monotonic : TimeSource by
MonotonicTimeSource {\n        override fun toString(): String = MonotonicTimeSource.toString()\n    }\n\n    public companion object {\n        }\n\n    /**\n     * Represents a time point notched on a particular [TimeSource].
Remains bound to the time source it was taken from\n     * and allows querying for the duration of time elapsed from
that point (see the function [elapsedNow]).\n     */\n\n    @SinceKotlin("1.3")\n\n    @ExperimentalTime\n\n    public abstract class
TimeMark {\n        /**\n         * Returns the amount of time passed from this mark measured with the time source from
which this mark was taken.\n         *\n         * Note that the value returned by this function can change on subsequent
invocations.\n         */\n\n        public abstract fun elapsedNow(): Duration\n\n        /**\n         * Returns a time mark on the same
time source that is ahead of this time mark by the specified [duration].\n         *\n         * The returned time mark is more
_late_ when the [duration] is positive, and more _early_ when the [duration] is negative.\n         */\n\n        public open
operator fun plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)\n\n        /**\n         * Returns a
time mark on the same time source that is behind this time mark by the specified [duration].\n         *\n         * The
returned time mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is
negative.\n         */\n\n        public open operator fun minus(duration: Duration): TimeMark = plus(-duration)\n\n        /**\n
         * Returns true if this time mark has passed according to the time source from which this mark was taken.\n         *\n
         * Note that the value returned by this function can change on subsequent invocations.\n         * If the time source is
monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point
of the time source.\n         */\n\n        public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()\n\n        /**\n
         * Returns false if this time mark has not passed according to the time source from which this mark was taken.\n         *\n
         * Note that the value returned by this function can change on subsequent invocations.\n         * If the time source is
monotonic, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point
of the time source.\n         */\n\n        public fun hasNotPassedNow(): Boolean =

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elapsedNow().isNegative())\n\n@ExperimentalTime\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@
Deprecated(\n  \"Subtracting one TimeMark from another is not a well defined operation because these time marks
could have been obtained from the different time sources.\",\n  level =
DeprecationLevel.ERROR)\n\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline operator fun
TimeMark.minus(other: TimeMark): Duration = throw Error(\"Operation is
disallowed.\")\n\n@ExperimentalTime\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Deprecated(\n
\"Comparing one TimeMark to another is not a well defined operation because these time marks could have been
obtained from the different time sources.\",\n  level =
DeprecationLevel.ERROR)\n\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline operator fun
TimeMark.compareTo(other: TimeMark): Int = throw Error(\"Operation is
disallowed.\")\n\n@ExperimentalTime\nprivate class AdjustedTimeMark(val mark: TimeMark, val adjustment:
Duration) : TimeMark() {\n  override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment\n\n
override fun plus(duration: Duration): TimeMark = AdjustedTimeMark(mark, adjustment + duration)\n}\n\"/*\n *
Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.time\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal expect object MonotonicTimeSource :
TimeSource\n\n/**\n * An abstract class used to implement time sources that return their readings as [Long] values
in the specified [unit].\n * @property unit The unit in which this time source's readings are expressed.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class AbstractLongTimeSource(protected val
unit: DurationUnit) : TimeSource {\n  /**\n   * This protected method should be overridden to return the current
reading of the time source expressed as a [Long] number\n   * in the unit specified by the [unit] property.\n   */\n
protected abstract fun read(): Long\n\n  private class LongTimeMark(private val startedAt: Long, private val
timeSource: AbstractLongTimeSource, private val offset: Duration) : TimeMark() {\n    override fun
elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset\n    override fun
plus(duration: Duration): TimeMark = LongTimeMark(startedAt, timeSource, offset + duration)\n  }\n\n  override
fun markNow(): TimeMark = LongTimeMark(read(), this, Duration.ZERO)\n}\n\n/**\n * An abstract class used to
implement time sources that return their readings as [Double] values in the specified [unit].\n * @property unit
The unit in which this time source's readings are expressed.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class AbstractDoubleTimeSource(protected val
unit: DurationUnit) : TimeSource {\n  /**\n   * This protected method should be overridden to return the current
reading of the time source expressed as a [Double] number\n   * in the unit specified by the [unit] property.\n
*/\n\n  protected abstract fun read(): Double\n\n  private class DoubleTimeMark(private val startedAt: Double,
private val timeSource: AbstractDoubleTimeSource, private val offset: Duration) : TimeMark() {\n    override fun
elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset\n    override fun
plus(duration: Duration): TimeMark = DoubleTimeMark(startedAt, timeSource, offset + duration)\n  }\n\n  override
fun markNow(): TimeMark = DoubleTimeMark(read(), this, Duration.ZERO)\n}\n\n/**\n * A time source
that has programmatically updatable readings. It is useful as a predictable source of time in tests.\n * The current
reading value can be advanced by the specified duration amount with the operator [plusAssign]:\n * val
timeSource = TestTimeSource()\n * timeSource += 10.seconds\n * ```\n * Implementation note: the current
reading value is stored as a [Long] number of nanoseconds,\n * thus it's capable to represent a time range of
approximately \u00b1292 years.\n * Should the reading value overflow as the result of [plusAssign] operation, an
[IllegalStateException] is thrown.\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic class TestTimeSource
: AbstractLongTimeSource(unit = DurationUnit.NANOSECONDS) {\n  private var reading: Long = 0L\n\n  override fun
read(): Long = reading\n\n  /**\n   * Advances the current reading value of this time source by the
specified [duration].\n   * [duration] value is rounded down towards zero when converting it to a [Long]
number of nanoseconds.\n   * For example, if the duration being added is `0.6.nanoseconds`, the reading doesn't
advance because\n   * the duration value is rounded to zero nanoseconds.\n   */\n   * @throws
IllegalStateException when the reading value overflows as the result of this operation.\n   */\n  public operator fun

```

```

plusAssign(duration: Duration) {
    val longDelta = duration.toLong(unit)
    reading = if (longDelta != Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {
        // when delta fits in long, add it as long
        val newReading = reading + longDelta
        if (reading xor longDelta >= 0 && reading xor newReading < 0)
            overflow(duration)
        newReading
    } else {
        // when delta is greater than long, add it as double
        val delta = duration.toDouble(unit)
        val newReading = reading + delta
        if (newReading > Long.MAX_VALUE || newReading < Long.MIN_VALUE)
            overflow(duration)
        newReading.toLong()
    }
}

private fun overflow(duration: Duration) {
    throw IllegalStateException("TestTimeSource will overflow if its reading ${reading}ns is advanced by $duration.")
}

/*
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.time
import kotlin.contracts.*

/**
 * Executes the given function [block] and returns the duration of elapsed time interval.
 * The elapsed time is measured with [TimeSource.Monotonic].
 */
@SinceKotlin("1.3")
@ExperimentalTime
public inline fun measureTime(block: () -> Unit): Duration {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return TimeSource.Monotonic.measureTime(block)
}

/**
 * Executes the given function [block] and returns the duration of elapsed time interval.
 * The elapsed time is measured with the specified `this` [TimeSource] instance.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public inline fun TimeSource.measureTime(block: () -> Unit): Duration {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    val mark = markNow()
    block()
    return mark.elapsedNow()
}

/**
 * Data class representing a result of executing an action, along with the duration of elapsed time interval.
 * @property value the result of the action.
 * @property duration the time elapsed to execute the action.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public data class TimedValue<T>(val value: T, val duration: Duration)

/**
 * Executes the given function [block] and returns an instance of [TimedValue] class, containing both
 * the result of the function execution and the duration of elapsed time interval.
 * The elapsed time is measured with [TimeSource.Monotonic].
 */
@SinceKotlin("1.3")
@ExperimentalTime
public inline fun <T> measureTimedValue(block: () -> T): TimedValue<T> {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return TimeSource.Monotonic.measureTimedValue(block)
}

/**
 * Executes the given [block] and returns an instance of [TimedValue] class, containing both
 * the result of function execution and the duration of elapsed time interval.
 * The elapsed time is measured with the specified `this` [TimeSource] instance.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public inline fun <T> TimeSource.measureTimedValue(block: () -> T): TimedValue<T> {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    val mark = markNow()
    val result = block()
    return TimedValue(result, mark.elapsedNow())
}

/*
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin
import kotlin.coroutines.*
import kotlin.coroutines.intrinsics.*
import kotlin.native.concurrent.SharedImmutable

/**
 * Defines deep recursive function that keeps its stack on the heap,
 * which allows very deep recursive computations that do not use the actual call stack.
 * To initiate a call to this deep recursive function use its [invoke] function.
 * As a rule of thumb, it should be used if recursion goes deeper than a thousand calls.
 * The [DeepRecursiveFunction] takes one parameter of type [T] and returns a result of type [R].
 * The [block] of code defines the body of a recursive function. In this block
 * [callRecursive][DeepRecursiveScope.callRecursive] function can be used to make a recursive call
 * to the declared function. Other instances of [DeepRecursiveFunction] can be called
 * in this scope with `callRecursive` extension, too.
 * For example, take a look at the following recursive tree class and a deeply
 * recursive instance of this tree with 100K nodes:
 */
class Tree(val left: Tree? = null, val right: Tree? = null)

val deepTree = generateSequence(Tree()) { Tree(it) }.take(100_000).last()

/**
 * A regular recursive function can be defined to compute a depth of a tree:
 */
fun depth(t: Tree?): Int = if (t == null) 0 else max(depth(t.left), depth(t.right)) + 1

println(depth(deepTree)) // StackOverflowError

/**
 * If this
 */

```

```

`depth` function is called for a `deepTree` it produces [StackOverflowError] because of deep recursion.
However, the `depth` function can be rewritten using `DeepRecursiveFunction` in the following way, and then
successfully computes [depth(deepTree)][DeepRecursiveFunction.invoke] expression:
val depth =
DeepRecursiveFunction<Tree?, Int> { t ->
    if (t == null) 0 else max(callRecursive(t.left),
callRecursive(t.right)) + 1
}
println(depth(deepTree)) // Ok
Deep recursive functions can also
mutually call each other using a heap for the stack via [callRecursive][DeepRecursiveScope.callRecursive]
extension. For example, the following pair of mutually recursive functions computes the number of tree nodes at
even depth in the tree.
val mutualRecursion = object {
    val even:
DeepRecursiveFunction<Tree?, Int> = DeepRecursiveFunction { t ->
        if (t == null) 0 else
odd.callRecursive(t.left) + odd.callRecursive(t.right) + 1
    }
    val odd: DeepRecursiveFunction<Tree?,
Int> = DeepRecursiveFunction { t ->
        if (t == null) 0 else even.callRecursive(t.left) +
even.callRecursive(t.right)
    }
}
@param [T] the function parameter type.
@param [R]
the function result type.
@param block the function body.
*Since Kotlin("1.4")ExperimentalStdlibApi
public class DeepRecursiveFunction<T, R> {
    internal val
block: suspend DeepRecursiveScope<T, R>.(T) -> R
}
/**
 * Initiates a call to this deep recursive function,
forming a root of the call tree.
 * This operator should not be used from inside of [DeepRecursiveScope] as it
uses the call stack slot for initial recursive invocation. From inside of [DeepRecursiveScope] use
[callRecursive][DeepRecursiveScope.callRecursive].
*Since Kotlin("1.4")ExperimentalStdlibApi
public operator fun <T, R> DeepRecursiveFunction<T,
R>.invoke(value: T): R =
    DeepRecursiveScopeImpl<T, R>(block, value).runCallLoop()
/**
 * A scope
class for [DeepRecursiveFunction] function declaration that defines [callRecursive] methods to recursively call
this function or another [DeepRecursiveFunction] putting the call activation frame on the heap.
@param [T]
function parameter type.
@param [R]
function result type.
*RestrictsSuspension
*Since Kotlin("1.4")ExperimentalStdlibApi
public sealed class
DeepRecursiveScope<T, R> {
    /**
     * Makes recursive call to this [DeepRecursiveFunction] function putting
the call activation frame on the heap,
     * as opposed to the actual call stack that is used by a regular recursive
call.
     */
    public abstract suspend fun callRecursive(value: T): R
    /**
     * Makes call to the specified
[DeepRecursiveFunction] function putting the call activation frame on the heap,
     * as opposed to the actual call
stack that is used by a regular call.
     */
    public abstract suspend fun <U, S> DeepRecursiveFunction<U,
S>.callRecursive(value: U): S
    @Deprecated(
        level = DeprecationLevel.ERROR,
        message =
        "'invoke' should not be called from DeepRecursiveScope. Use 'callRecursive' to do recursion in
the heap instead of the call stack.",
        replaceWith = ReplaceWith("this.callRecursive(value)")
    )
    @Suppress("UNUSED_PARAMETER")
    public operator fun DeepRecursiveFunction<*, *>.invoke(value:
Any?): Nothing =
        throw UnsupportedOperationException("Should not be called from
DeepRecursiveScope()")
}
// ===== Implementation
=====
@ExperimentalStdlibApi
private typealias DeepRecursiveFunctionBlock = suspend
DeepRecursiveScope<*, *>.(Any?) -> Any?
@SharedImmutable
private val UNDEFINED_RESULT =
Result.success(COROUTINE_SUSPENDED)
@Suppress("UNCHECKED_CAST")
@ExperimentalStdlibApi
private class DeepRecursiveScopeImpl<T, R> {
    block: suspend DeepRecursiveScope<T, R>.(T) -> R,
    value: T
} : DeepRecursiveScope<T, R>(), Continuation<R> {
    // Active function block
    private var
function: DeepRecursiveFunctionBlock = block as DeepRecursiveFunctionBlock
    // Value to call function
with
    private var value: Any? = value
    // Continuation of the current call
    private var cont:
Continuation<Any?>? = this as Continuation<Any?>
    // Completion result (completion of the whole call
stack)
    private var result: Result<Any?> = UNDEFINED_RESULT
    override val context:
CoroutineContext
        get() = EmptyCoroutineContext
    override fun resumeWith(result: Result<R>) {
        this.cont = null
        this.result = result
    }
    override suspend fun callRecursive(value: T): R =
suspendCoroutineUninterceptedOrReturn { cont ->
        // calling the same function that is currently active
        this.cont = cont as Continuation<Any?>
        this.value = value
        COROUTINE_SUSPENDED
    }
}

```

```

override suspend fun <U, S> DeepRecursiveFunction<U, S>.callRecursive(value: U): S =
suspendCoroutineUninterceptedOrReturn { cont ->\n // calling another recursive function\n val function =
block as DeepRecursiveFunctionBlock\n with(this@DeepRecursiveScopeImpl) {\n val currentFunction
= this.function\n if (function !== currentFunction) {\n // calling a different function -- create a
trampoline to restore function ref\n this.function = function\n this.cont =
crossFunctionCompletion(currentFunction, cont as Continuation<Any?>)\n } else {\n // calling the
same function -- direct\n this.cont = cont as Continuation<Any?>\n }\n this.value = value\n
}\n COROUTINE_SUSPENDED\n }\n\n private fun crossFunctionCompletion(\n currentFunction:
DeepRecursiveFunctionBlock,\n cont: Continuation<Any?>\n ): Continuation<Any?> =
Continuation(EmptyCoroutineContext) {\n this.function = currentFunction\n // When going back from a
trampoline we cannot just call cont.resume (stack usage!)\n // We delegate the cont.resumeWith(it) call to
runCallLoop\n this.cont = cont\n this.result = it\n }\n\n @Suppress(\"UNCHECKED_CAST\")\n fun
runCallLoop(): R {\n while (true) {\n // Note: cont is set to null in DeepRecursiveScopeImpl.resumeWith
when the whole computation completes\n val result = this.result\n val cont = this.cont\n ?:
return (result as Result<R>).getOrThrow() // done -- final result\n // The order of comparison is important
here for that case of rogue class with broken equals\n if (UNDEFINED_RESULT == result) {\n //
call \"function\" with \"value\" using \"cont\" as completion\n val r = try {\n // This is
block.startCoroutine(this, value, cont)\n function.startCoroutineUninterceptedOrReturn(this, value,
cont)\n } catch (e: Throwable) {\n cont.resumeWithException(e)\n continue\n
}\n // If the function returns without suspension -- calls its continuation immediately\n if (r !==
COROUTINE_SUSPENDED)\n cont.resume(r as R)\n } else {\n // we returned from a
crossFunctionCompletion trampoline -- call resume here\n this.result = UNDEFINED_RESULT // reset
result back\n cont.resumeWith(result)\n }\n }\n }\n }\n\n\"/>\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// Auto-generated file. DO NOT
EDIT!\n\n@file:kotlin.jvm.JvmName(\"NumbersKt\")\n\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin\n\nimport kotlin.math.sign\n\n/** Divides this value by the other value, flooring the result to an integer that is
closer to negative infinity. *\n\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
Byte.floorDiv(other: Byte): Int = \n this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of
flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the
_divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun Byte.mod(other: Byte): Byte = \n
this.toInt().mod(other.toInt()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity. *\n\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
Byte.floorDiv(other: Short): Int = \n this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of
flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the
_divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun Byte.mod(other: Short): Short = \n
this.toInt().mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity. *\n\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
Byte.floorDiv(other: Int): Int = \n this.toInt().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring
division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and
has the absolute value less than the absolute value of the divisor.\n
*\n\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun Byte.mod(other: Int): Int = \n
this.toInt().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to
negative infinity. *\n\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun Byte.floorDiv(other:
Long): Long = \n this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this
value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute

```

value less than the absolute value of the divisor.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Byte.mod(other: Long): Long =
    this.toLong().mod(other)

```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Short.floorDiv(other: Byte): Int =
    this.toInt().floorDiv(other.toInt())

```

Calculates the remainder of flooring division of this value by the other value. The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Short.mod(other: Byte): Byte =
    this.toInt().mod(other.toInt()).toByte()

```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Short.floorDiv(other: Short): Int =
    this.toInt().floorDiv(other.toInt())

```

Calculates the remainder of flooring division of this value by the other value. The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Short.mod(other: Short): Short =
    this.toInt().mod(other.toInt()).toShort()

```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Short.floorDiv(other: Int): Int =
    this.toInt().floorDiv(other)

```

Calculates the remainder of flooring division of this value by the other value. The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Short.mod(other: Int): Int =
    this.toInt().mod(other)

```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Short.floorDiv(other: Long): Long =
    this.toLong().floorDiv(other)

```

Calculates the remainder of flooring division of this value by the other value. The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Int.floorDiv(other: Byte): Int =
    this.floorDiv(other.toInt())

```

Calculates the remainder of flooring division of this value by the other value. The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Int.mod(other: Byte): Byte =
    this.mod(other.toInt()).toByte()

```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Int.floorDiv(other: Short): Int =
    this.floorDiv(other.toInt())

```

Calculates the remainder of flooring division of this value by the other value. The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Int.mod(other: Short): Short =
    this.mod(other.toInt()).toShort()

```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Int.floorDiv(other: Int): Int {
    var q = this / other
    if (this xor other < 0 && q * other != this) q--
    return q
}

```

Calculates the remainder of flooring division of this value by the other value. The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Int.mod(other: Int): Int {
    val r = this % other
    return r + (other and (((r xor other) and (r or -r)) shr 31))
}

```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Int.floorDiv(other: Long): Long =
    this.toLong().floorDiv(other)

```

Calculates the remainder of flooring division of this value by the other value. The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

value.
The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.
`@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Long): Long = this.toLong().mod(other)`
Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

`@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Byte): Long = this.floorDiv(other.toLong())`
Calculates the remainder of flooring division of this value by the other

value.
The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.
`@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Byte): Byte = this.mod(other.toLong()).toByte()`
Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

`@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Short): Long = this.floorDiv(other.toLong())`
Calculates the remainder of flooring division of this value by the other

value.
The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.
`@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Short): Short = this.mod(other.toLong()).toShort()`
Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

`@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Int): Long = this.floorDiv(other.toLong())`
Calculates the remainder of flooring division of this value by the other

value.
The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.
`@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Int): Int = this.mod(other.toLong()).toInt()`
Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

`@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Long): Long {
 var q = this / other
 if (this xor other < 0 && q * other != this) q--
 return q
}`
Calculates the remainder of flooring division of this value by the other value.
The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

`@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Long): Long {
 val r = this % other
 return r + (other and (((r xor other) and (r or -r)) shr 63))
}`
Calculates the remainder of flooring division of this value by the other value.
The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.
If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or `_equal to_` the absolute value of the divisor.

`@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Float.mod(other: Float): Float {
 val r = this % other
 return if (r != 0.0.toFloat() && r.sign != other.sign) r + other else r
}`
Calculates the remainder of flooring division of this value by the other value.
The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.
If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or `_equal to_` the absolute value of the divisor.

`@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Float.mod(other: Double): Double = this.toDouble().mod(other)`
Calculates the remainder of flooring division of this value by the other value.
The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.
If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or `_equal to_` the absolute value of the divisor.

`@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Double.mod(other: Float): Double = this.mod(other.toDouble())`
Calculates the remainder of flooring division of this value by the other value.

The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.
If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or `_equal to_` the absolute value of the divisor.

```

the divisor.\n */\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Double.mod(other:
Double): Double {\n    val r = this % other\n    return if (r != 0.0 && r.sign != other.sign) r + other else
r}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\n\n/**\n * Returns a hash code value for the object or
zero if the object is `null`.\n */\n * @see Any.hashCode()\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline
fun Any?.hashCode(): Int = this?.hashCode() ?: 0\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Represents a version of the Kotlin standard
library.\n */\n * [major], [minor] and [patch] are integer components of a version,\n * they must be non-negative and
not greater than 255 ([MAX_COMPONENT_VALUE]).\n */\n * @constructor Creates a version from all three
components.\n */\n@SinceKotlin("1.1")\npublic class KotlinVersion(val major: Int, val minor: Int, val patch: Int) :
Comparable<KotlinVersion> {\n    /**\n     * Creates a version from [major] and [minor] components, leaving
[patch] component zero.\n     */\n    public constructor(major: Int, minor: Int) : this(major, minor, 0)\n\n    private val
version = versionOf(major, minor, patch)\n\n    private fun versionOf(major: Int, minor: Int, patch: Int): Int {\n
require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in
0..MAX_COMPONENT_VALUE) {\n        "Version components are out of range: $major.$minor.$patch"\n
}\n    return major.shl(16) + minor.shl(8) + patch\n }\n\n    /**\n     * Returns the string representation of this
version.\n     */\n    override fun toString(): String = "$major.$minor.$patch"\n\n    override fun equals(other:
Any?): Boolean {\n        if (this === other) return true\n        val otherVersion = (other as? KotlinVersion) ?: return
false\n        return this.version == otherVersion.version\n    }\n\n    override fun hashCode(): Int = version\n\n
override fun compareTo(other: KotlinVersion): Int = version - other.version\n\n    /**\n     * Returns `true` if this
version is not less than the version specified\n     * with the provided [major] and [minor] components.\n     */\n    public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)\n
this.major > major || (this.major == major &&\n        this.minor >= minor)\n\n    /**\n     * Returns `true` if this
version is not less than the version specified\n     * with the provided [major], [minor] and [patch] components.\n
*/\n    public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean = // this.version >= versionOf(major, minor,
patch)\n    this.major > major || (this.major == major &&\n        (this.minor > minor || this.minor == minor
&&\n            this.patch >= patch))\n\n    companion object {\n        /**\n         * Maximum value a version
component can have, a constant value 255.\n         */\n        // NOTE: Must be placed before CURRENT because its
initialization requires this field being initialized in JS\n        public const val MAX_COMPONENT_VALUE =
255\n\n        /**\n         * Returns the current version of the Kotlin standard library.\n         */\n        @kotlin.jvm.JvmField\n        public val CURRENT: KotlinVersion = KotlinVersionCurrentValue.get()\n
}\n}\n\n// this class is ignored during classpath normalization when considering whether to recompile dependencies
in Kotlin build\nprivate object KotlinVersionCurrentValue {\n    @kotlin.jvm.JvmStatic\n    fun get():
KotlinVersion = KotlinVersion(1, 6, 10) // value is written here automatically during build\n"/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("LateinitKt")\n@file:Suppress("unused")\n\npackage kotlin\n\nimport
kotlin.internal.InlineOnly\n\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\n\nimport
kotlin.reflect.KProperty0\n\n/**\n * Returns `true` if this lateinit property has been assigned a value, and `false`
otherwise.\n */\n * Cannot be used in an inline function, to avoid binary compatibility issues.\n
*/\n\n@SinceKotlin("1.2")\n@InlineOnly\ninline val @receiver:AccessibleLateinitPropertyLiteral
KProperty0<*>.isInitialized: Boolean\n    get() = throw NotImplementedError("Implementation is
intrinsic")\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("LazyKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin\n\nimport
kotlin.reflect.KProperty\n\n/**\n * Represents a value with lazy initialization.\n */\n * To create an instance of

```



```

[Lazy] use the [lazy] function.
public interface Lazy<out T> {
    * Gets the lazily initialized value of the current Lazy instance.
    * Once the value was initialized it must not change during the rest of lifetime of this Lazy instance.
    public val value: T
    * Returns `true` if a value for this Lazy instance has been already initialized, and `false` otherwise.
    * Once this function has returned `true` it stays `true` for the rest of lifetime of this Lazy instance.
    public fun isInitialized(): Boolean
    * Creates a new instance of the [Lazy] that is already initialized with the specified [value].
    public fun <T> lazyOf(value: T): Lazy<T> = InitializedLazyImpl(value)
    * An extension to delegate a read-only property of type [T] to an instance of [Lazy].
    * This extension allows to use instances of Lazy for property delegation:
    * `val property: String by lazy { initializer }`
    @kotlin.internal.InlineOnly
    public inline operator fun <T> Lazy<T>.getValue(thisRef: Any?, property: KProperty<*>): T = value
    * Specifies how a [Lazy] instance synchronizes initialization among multiple threads.
    public enum class LazyThreadSafetyMode {
        * Locks are used to ensure that only a single thread can initialize the [Lazy] instance.
        SYNCHRONIZED,
        * Initializer function can be called several times on concurrent access to uninitialized [Lazy] instance value, but only the first returned value will be used as the value of [Lazy] instance.
        PUBLICATION,
        * No locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple threads, its behavior is undefined.
        NONE,
        * This mode should not be used unless the [Lazy] instance is guaranteed never to be initialized from more than one thread.
        NONE
    }
    internal object UNINITIALIZED_VALUE
    // internal to be called from lazy in JS
    internal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {
        private var initializer: (() -> T)? = initializer
        private var _value: Any? = UNINITIALIZED_VALUE
        override val value: T
            get() {
                if (_value === UNINITIALIZED_VALUE) {
                    _value = initializer!!()
                    initializer = null
                }
                @Suppress("UNCHECKED_CAST")
                return _value as T
            }
        override fun isInitialized(): Boolean = _value != UNINITIALIZED_VALUE
        override fun toString(): String = if (isInitialized()) value.toString() else "Lazy value not initialized yet."
        private fun writeReplace(): Any = InitializedLazyImpl(value)
    }
    internal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>, Serializable {
        override fun isInitialized(): Boolean = true
        override fun toString(): String = value.toString()
    }
    * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.
    * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
}

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("NumbersKt")
package kotlin

Counts the number of set bits in the binary representation of this [Int] number.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Int.countOneBits(): Int
* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Int.countLeadingZeroBits(): Int
* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Int.countTrailingZeroBits(): Int
* Returns a number having a single bit set in the position of the most significant set bit of this [Int] number, or zero, if this number is zero.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Int.takeHighestOneBit(): Int
* Returns a number having a single bit set in the position of the least significant set bit of this [Int] number, or zero, if this number is zero.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Int.takeLowestOneBit(): Int
* Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.
* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.
* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:
* `number.rotateLeft(-n) == number.rotateRight(n)`
* Rotating by a multiple

```

of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n

*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.rotateLeft(bitCount: Int): Int\n\n/**\n * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n

*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.rotateRight(bitCount: Int): Int\n\n/**\n * Counts the number of set bits in the binary representation of this [Long] number.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is zero.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.takeHighestOneBit(): Long\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.takeLowestOneBit(): Long\n\n/**\n * Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n

*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.rotateLeft(bitCount: Int): Long\n\n/**\n * Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n

*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.rotateRight(bitCount: Int): Long\n\n/**\n * Counts the number of set bits in the binary representation of this [Byte] number.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic

```

c inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()\n\n/**\n * Returns a
number having a single bit set in the position of the most significant set bit of this [Byte] number,\n * or zero, if this
number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()\n\n/**\n * Returns a
number having a single bit set in the position of the least significant set bit of this [Byte] number,\n * or zero, if this
number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()\n\n\n/**\n * Rotates the binary
representation of this [Byte] number left by the specified [bitCount] number of bits.\n * The most significant bits
pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the
number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-
n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or
more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
Byte.rotateLeft(bitCount: Int): Byte =\n (toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and
7))).toByte()\n\n\n/**\n * Rotates the binary representation of this [Byte] number right by the specified [bitCount]
number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most
significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it
left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of
[Byte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateRight(n) ==
number.rotateRight(n % 8)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
Byte.rotateRight(bitCount: Int): Byte =\n (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and
7)).toByte()\n\n\n/**\n * Counts the number of set bits in the binary representation of this [Short] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()\n\n\n/**\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [Short] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.countLeadingZeroBits(): Int =\n (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS
- Short.SIZE_BITS)\n\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary
representation of this [Short] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()\n\n\n/**\n * Returns a
number having a single bit set in the position of the most significant set bit of this [Short] number,\n * or zero, if this
number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\n\n\n/**\n *
Returns a number having a single bit set in the position of the least significant set bit of this [Short] number,\n * or
zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\n\n\n\n/**\n * Rotates the binary
representation of this [Short] number left by the specified [bitCount] number of bits.\n * The most significant bits
pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the
number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-
n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or
more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun

```

Short.rotateLeft(bitCount: Int): Short =\n (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\n\n/**\n * Rotates the binary representation of this [Short] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n

*/\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun

Short.rotateRight(bitCount: Int): Short =\n (toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.2")\n@Suppress("INVISIBLE_MEMBER", "INVISIBLE_REFERENCE")\n@RequireKotlin("1.2.30", level = DeprecationLevel.HIDDEN, versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic inline fun <R> suspend(noinline block: suspend () -> R): suspend () -> R = block\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

*/\n\n@file:kotlin.jvm.JvmName("TuplesKt")\npackage kotlin\n\n/**\n * Represents a generic pair of two values.\n *\n * There is no meaning attached to values in this class, it can be used for any purpose.\n * Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.\n *\n * An example of decomposing it into values:\n * @sample samples.misc.Tuples.pairDestructuring\n *\n * @param A type of the first value.\n * @param B type of the second value.\n * @property first First value.\n * @property second Second value.\n * @constructor Creates a new instance of Pair.\n */\npublic data class Pair<out A, out B>(\n public val first: A,\n public val second: B\n) : Serializable {\n\n /**\n * Returns string representation of the [Pair] including its [first] and [second] values.\n */\n public override fun toString(): String = "\$first, \$second"\n\n /**\n * Creates a tuple of type [Pair] from this and [that].\n *\n * This can be useful for creating [Map] literals with less noise, for example:\n * @sample samples.collections.Maps.instantiation.mapFromPairs\n */\n public infix fun <A, B>

A.to(that: B): Pair<A, B> = Pair(this, that)\n\n/**\n * Converts this pair into a list.\n * @sample samples.misc.Tuples.pairToList\n */\n public fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\n\n /**\n * Represents a triad of values\n *\n * There is no meaning attached to values in this class, it can be used for any purpose.\n * Triple exhibits value semantics, i.e. two triples are equal if all three components are equal.\n *\n * An example of decomposing it into values:\n * @sample samples.misc.Tuples.tripleDestructuring\n *\n * @param A type of the first value.\n * @param B type of the second value.\n * @param C type of the third value.\n * @property first First value.\n * @property second Second value.\n * @property third Third value.\n */\n public data class Triple<out A, out B, out C>(\n public val first: A,\n public val second: B,\n public val third: C\n) : Serializable {\n\n /**\n * Returns string representation of the [Triple] including its [first], [second] and [third] values.\n */\n public override fun toString(): String = "\$first, \$second, \$third"\n\n /**\n * Converts this triple into a list.\n * @sample samples.misc.Tuples.tripleToList\n */\n public fun <T> Triple<T, T, T>.toList(): List<T> = listOf(first, second, third)\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\npackage kotlin.ranges\n\nimport kotlin.internal.*\n\n/**\n * A range of values of type `UInt`.\n

*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic class UIntRange(start: UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {\n override val start: UInt get() = first\n override val endInclusive: UInt get() = last\n\n override fun contains(value: UInt): Boolean = first <= value && value <= last\n\n /**\n * Checks if the range is empty.\n *\n * The range is empty if its start value is greater than the end value.\n */\n override fun isEmpty(): Boolean = first > last\n\n override fun

```

equals(other: Any?): Boolean =\n    other is UIntRange && (isEmpty() && other.isEmpty()) ||\n        first ==\n        other.first && last == other.last)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * first.toInt()\n        + last.toInt())\n\n    override fun toString(): String = \"$first..$last\"\n\n    companion object {\n        /** An empty\n        range of values of type UInt. */\n        public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE,\n        UInt.MIN_VALUE)\n    }\n}\n\n/** A progression of values of type `UInt`.\n\n*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic open class\nUIntProgression(\n    internal constructor(\n        start: UInt,\n        endInclusive: UInt,\n        step: Int\n    ) : Iterable<UInt> {\n        init {\n            if (step == 0.toInt()) throw kotlin.IllegalArgumentException("Step must be non-zero.")\n            if (step\n            == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to\n            avoid overflow on negation.")\n        }\n\n        /**\n        * The first element in the progression.\n        */\n        public val first:\n        UInt = start\n\n        /**\n        * The last element in the progression.\n        */\n        public val last: UInt =\n        getProgressionLastElement(start, endInclusive, step)\n\n        /**\n        * The step of the progression.\n        */\n        public\n        val step: Int = step\n\n        final override fun iterator(): Iterator<UInt> = UIntProgressionIterator(first, last, step)\n\n        /**\n        * Checks if the progression is empty.\n        */\n        override fun isEmpty(): Boolean =\n        if (step > 0) first > last else first < last\n\n        /**\n        * Progression with a positive step is empty if its first\n        element is greater than the last element.\n        * Progression with a negative step is empty if its first element is less\n        than the last element.\n        */\n        public open fun isEmpty(): Boolean =\n        if (step > 0) first > last else first < last\n\n        override fun equals(other: Any?): Boolean =\n        other is UIntProgression && (isEmpty() && other.isEmpty()) ||\n        first == other.first && last == other.last && step == other.step)\n\n        override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())\n\n        override fun toString(): String =\n        if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n        companion object {\n            /**\n            * Creates UIntProgression within the specified bounds of a closed range.\n            * The progression starts with\n            the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n            * In\n            order to go backwards the [step] must be negative.\n            * [step] must be greater than `Int.MIN_VALUE`\n            and not equal to zero.\n            */\n            public fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int):\n            UIntProgression = UIntProgression(rangeStart, rangeEnd, step)\n        }\n}\n\n/** An iterator over a progression\nof values of type `UInt`. * @property step the number by which the value is incremented on each step.\n\n*/\n@SinceKotlin("1.3")\n@Suppress("DEPRECATION_ERROR")\nprivate class UIntProgressionIterator(first:\nUInt, last: UInt, step: Int) : UIntIterator() {\n    private val finalElement = last\n    private var hasNext: Boolean =\n    if (step > 0) first <= last else first >= last\n    private val step = step.toInt() // use 2-complement math for negative\n    steps\n    private var next = if (hasNext) first else finalElement\n\n    override fun hasNext(): Boolean = hasNext\n\n    override fun nextUInt(): UInt {\n        val value = next\n        if (value == finalElement) {\n            if (!hasNext)\n            throw kotlin.NoSuchElementException()\n            hasNext = false\n        } else {\n            next += step\n        }\n        return value\n    }\n}\n\n/**\n* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language\ncontributors.\n* Use of this source code is governed by the Apache 2.0 license that can be found in the\nlicense/LICENSE.txt file.\n*/\n// Auto-generated file. DO NOT EDIT!\npackage kotlin.collections\n\n/** An\niterator over a sequence of values of type `UByte`. */\n@Deprecated("This class is not going to be stabilized and is\nto be removed soon.", level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class\nUByteIterator : Iterator<UByte> {\n    final override fun next() = nextUByte()\n\n    /** Returns the next value in the\nsequence without boxing. */\n    public abstract fun nextUByte(): UByte\n}\n\n/** An iterator over a sequence of\nvalues of type `UShort`. */\n@Deprecated("This class is not going to be stabilized and is to be removed soon.",\nlevel = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class\nUShortIterator : Iterator<UShort>\n{\n    final override fun next() = nextUShort()\n\n    /** Returns the next value in the\nsequence without boxing. */\n    public abstract fun nextUShort(): UShort\n}\n\n/** An iterator over a sequence of values of type `UInt`.\n\n*/\n@Deprecated("This class is not going to be stabilized and is to be removed soon.", level =\nDeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class\nUIntIterator : Iterator<UInt> {\n    final\n    override fun next() = nextUInt()\n\n    /** Returns the next value in the\nsequence without boxing. */\n    public\n    abstract fun nextUInt(): UInt\n}\n\n/** An iterator over a sequence of values of type `ULong`.\n\n*/\n@Deprecated("This class is not going to be stabilized and is to be removed soon.", level =

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DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class ULongIterator : Iterator<ULong> {\n
final override fun next() = nextULong()\n    /** Returns the next value in the sequence without boxing. */\n
public abstract fun nextULong(): ULong\n}\n\n",/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin.ranges\n\nimport kotlin.internal.*\n\n/**\n * A range of values of type `ULong`.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic class
ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1),
ClosedRange<ULong> {\n    override val start: ULong get() = first\n    override val endInclusive: ULong get() =
last\n    override fun contains(value: ULong): Boolean = first <= value && value <= last\n    /**\n     * Checks
if the range is empty.\n     *\n     * The range is empty if its start value is greater than the end value.\n     */\n
    override fun isEmpty(): Boolean = first > last\n    override fun equals(other: Any?): Boolean =\n        other is
ULongRange && (isEmpty() && other.isEmpty()) ||\n            first == other.first && last == other.last\n    \n
    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() + (last xor (last shr
32)).toInt())\n    \n    override fun toString(): String = "$first..$last"\n    \n    companion object {\n        /** An empty
range of values of type ULong. */\n        public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE,
ULong.MIN_VALUE)\n    }\n}\n\n/**\n * A progression of values of type `ULong`.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic open class
ULongProgression\n    internal constructor(\n        start: ULong,\n        endInclusive: ULong,\n        step: Long\n    ) :
Iterable<ULong> {\n    init {\n        if (step == 0.toLong()) throw kotlin.IllegalArgumentException("Step must be
non-zero.")\n        if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater
than Long.MIN_VALUE to avoid overflow on negation.")\n    }\n    /**\n     * The first element in the
progression.\n     */\n    public val first: ULong = start\n    /**\n     * The last element in the progression.\n     */\n
    public val last: ULong = getProgressionLastElement(start, endInclusive, step)\n    /**\n     * The step of the
progression.\n     */\n    public val step: Long = step\n    \n    final override fun iterator(): Iterator<ULong> =
ULongProgressionIterator(first, last, step)\n    /**\n     * Checks if the progression is empty.\n     *\n     *
Progression with a positive step is empty if its first element is greater than the last element.\n     * Progression with a
negative step is empty if its first element is less than the last element.\n     */\n    public open fun isEmpty(): Boolean
= if (step > 0) first > last else first < last\n    \n    override fun equals(other: Any?): Boolean =\n        other is
ULongProgression && (isEmpty() && other.isEmpty()) ||\n            first == other.first && last == other.last &&
step == other.step\n    \n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * (first xor (first shr
32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())\n    \n    override fun toString(): String =
if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"\n    \n    companion object {\n        /**\n
     * Creates ULongProgression within the specified bounds of a closed range.\n     *\n     * The progression
starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n
     *\n     * In order to go backwards the [step] must be negative.\n     *\n     * [step] must be greater than
`Long.MIN_VALUE` and not equal to zero.\n     */\n        public fun fromClosedRange(rangeStart: ULong,
rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)\n    }\n}\n\n\n/**\n * An iterator over a progression of values of type `ULong`.\n * @property step the number by which
the value is incremented on each step.\n
*/\n@SinceKotlin("1.3")\n@Suppress("DEPRECATION_ERROR")\nprivate class
ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {\n    private val finalElement =
last\n    private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private val step =
step.toULong() // use 2-complement math for negative steps\n    private var next = if (hasNext) first else
finalElement\n    \n    override fun hasNext(): Boolean = hasNext\n    \n    override fun nextULong(): ULong {\n        val
value = next\n        if (value == finalElement) {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n
            hasNext = false\n        } else {\n            next += step\n        }\n        return value\n    }\n}\n\n",/*\n * Copyright
2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed

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by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.math\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun min(a: UInt, b: UInt): UInt {\n return minOf(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun min(a: ULong, b: ULong): ULong {\n return minOf(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun max(a: UInt, b: UInt): UInt {\n return maxOf(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun max(a: ULong, b: ULong): ULong {\n return maxOf(a, b)\n}\n\n/* Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("UNumbersKt")\npackage kotlin\n\n/**\n * Counts the number of set bits in the
binary representation of this [UInt] number.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countOneBits(): Int =
toInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary
representation of this [UInt] number.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countLeadingZeroBits(): Int =
toInt().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the
binary representation of this [UInt] number.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countTrailingZeroBits(): Int =
toInt().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeHighestOneBit(): UInt =
toInt().takeHighestOneBit().toUInt()\n\n/**\n * Returns a number having a single bit set in the position of the least
significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeLowestOneBit(): UInt =
toInt().takeLowestOneBit().toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number left by the
specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as
the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the same as
rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a
multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) ==
number.rotateLeft(n % 32)`\n */\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateLeft(bitCount: Int):
UInt = toInt().rotateLeft(bitCount).toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number
right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter
the number as the most significant bits on the left side.\n * Rotating the number right by a negative bit count is
the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a
multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n */\n

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*^@SinceKotlin("1.6")^@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)^@kotlin.internal.InlineOnly^public inline fun UInt.rotateRight(bitCount: Int):
UInt = toInt().rotateRight(bitCount).toUInt()\n\n/**\n * Counts the number of set bits in the binary representation
of this [ULong] number.\n *^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun ULong.countOneBits(): Int =
toLong().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [ULong] number.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun ULong.countLeadingZeroBits(): Int
= toLong().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero
in the binary representation of this [ULong] number.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun ULong.countTrailingZeroBits(): Int
= toLong().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun ULong.takeHighestOneBit(): ULong
= toLong().takeHighestOneBit().toULong()\n\n/**\n * Returns a number having a single bit set in the position of the
least significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun ULong.takeLowestOneBit(): ULong
= toLong().takeLowestOneBit().toULong()\n\n/**\n * Rotates the binary representation of this [ULong] number left
by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the
same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *
Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\n *
`number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
*^@SinceKotlin("1.6")^@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)^@kotlin.internal.InlineOnly^public inline fun ULong.rotateLeft(bitCount:
Int): ULong = toLong().rotateLeft(bitCount).toULong()\n\n/**\n * Rotates the binary representation of this [ULong]
number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side
reenter the number as the most significant bits on the left side.\n * Rotating the number right by a negative bit
count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n
*\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 64)`\n
*^@SinceKotlin("1.6")^@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)^@kotlin.internal.InlineOnly^public inline fun ULong.rotateRight(bitCount:
Int): ULong = toLong().rotateRight(bitCount).toULong()\n\n/**\n * Counts the number of set bits in the binary
representation of this [UByte] number.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun UByte.countOneBits(): Int =
toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [UByte] number.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun UByte.countLeadingZeroBits(): Int =
toByte().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [UByte] number.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,

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ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countTrailingZeroBits(): Int =
toByte().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeHighestOneBit(): UByte
= toInt().takeHighestOneBit().toUByte()\n\n/**\n * Returns a number having a single bit set in the position of the
least significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeLowestOneBit(): UByte =
toInt().takeLowestOneBit().toUByte()\n\n/**\n * Rotates the binary representation of this [UByte] number left by
the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the
same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n *
`number.rotateLeft(n) == number.rotateLeft(n % 8)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateLeft(bitCount:
Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\n/**\n * Rotates the binary representation of this [UByte]
number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side
reenter the number as the most significant bits on the left side.\n * Rotating the number right by a negative bit
count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n
*\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 8)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateRight(bitCount:
Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n/**\n * Counts the number of set bits in the binary
representation of this [UShort] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countOneBits(): Int =
toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [UShort] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countLeadingZeroBits(): Int
= toShort().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero
in the binary representation of this [UShort] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countTrailingZeroBits(): Int
= toShort().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeHighestOneBit(): UShort
= toInt().takeHighestOneBit().toUShort()\n\n/**\n * Returns a number having a single bit set in the position of the
least significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeLowestOneBit(): UShort
= toInt().takeLowestOneBit().toUShort()\n\n/**\n * Rotates the binary representation of this [UShort] number left
by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the

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same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *
Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\n *
`number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateLeft(bitCount:
Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\n/**\n * Rotates the binary representation of this
[UShort] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the
right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a
negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) ==
number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more
generally\n *\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateRight(bitCount:
Int): UShort = toShort().rotateRight(bitCount).toUShort()\n\n"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n@npackage kotlin.internal\n@n// (a - b) mod c\nprivate fun
differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\n    val ac = a % c\n    val bc = b % c\n    return if (ac >= bc) ac -
bc else ac - bc + c\n}\n\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\n    val ac = a %
c\n    val bc = b % c\n    return if (ac >= bc) ac - bc else ac - bc + c\n}\n\n/**\n * Calculates the final element of a
bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end]
in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed
parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <=
end`,\n *\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end
ending bound for the progression\n * @param step increment, or difference of successive elements in the
progression\n * @return the final element of the progression\n * @suppress\n
*\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: UInt, end: UInt, step:
Int): UInt = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())\n
step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())\n    else -> throw
kotlin.IllegalArgumentException("Step is zero.")\n}\n\n/**\n * Calculates the final element of a bounded
arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case
of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed
parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <=
end`,\n *\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end
ending bound for the progression\n * @param step increment, or difference of successive elements in the
progression\n * @return the final element of the progression\n * @suppress\n
*\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: ULong, end: ULong,
step: Long): ULong = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start,
step.toULong())\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())\n
else -> throw kotlin.IllegalArgumentException("Step is zero.")\n}\n\n"/*\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n *\n@nfile:kotlin.jvm.JvmName("UStringsKt") // string
representation of unsigned numbers\n@npackage kotlin.text\n@n/**\n * Returns a string representation of this [Byte]
value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for
number to string conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic
/*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string
representation of this [Short] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix]
is not a valid radix for number to string conversion.\n

```

```

*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly
\npublic /*inline*/ fun UShort.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string
representation of this [Int] value in the specified [radix].\n * \n * @throws IllegalArgumentException when [radix] is
not a valid radix for number to string conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly
\npublic /*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)\n\n/**\n * Returns a string
representation of this [Long] value in the specified [radix].\n * \n * @throws IllegalArgumentException when [radix]
is not a valid radix for number to string conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\n\n/**\n * Parses the string
as a signed [UByte] number and returns the result.\n * \n * @throws NumberFormatException if the string is not a valid
representation of a number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUByte():
UByte = toUByteOrNull() ?: numberFormatException(this)\n\n/**\n * Parses the string as a signed [UByte] number and
returns the result.\n * \n * @throws NumberFormatException if the string is not a valid representation of a number.\n
*\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUByte(radix: Int): UByte = toUByteOrNull(radix) ?: numberFormatException(this)\n\n/**\n * Parses the
string as a [UShort] number and returns the result.\n * \n * @throws NumberFormatException if the string is not a valid
representation of a number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUShort():
UShort = toUShortOrNull() ?: numberFormatException(this)\n\n/**\n * Parses the string as a [UShort] number and
returns the result.\n * \n * @throws NumberFormatException if the string is not a valid representation of a number.\n
*\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatException(this)\n\n/**\n * Parses the
string as an [UInt] number and returns the result.\n * \n * @throws NumberFormatException if the string is not a valid
representation of a number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUInt():
UInt = toUIntOrNull() ?: numberFormatException(this)\n\n/**\n * Parses the string as an [UInt] number and returns the
result.\n * \n * @throws NumberFormatException if the string is not a valid representation of a number.\n * \n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUInt(radix: Int): UInt = toUIntOrNull(radix) ?: numberFormatException(this)\n\n/**\n * Parses the string as a
[ULong] number and returns the result.\n * \n * @throws NumberFormatException if the string is not a valid
representation of a number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toULong():
ULong = toULongOrNull() ?: numberFormatException(this)\n\n/**\n * Parses the string as a [ULong] number and
returns the result.\n * \n * @throws NumberFormatException if the string is not a valid representation of a number.\n
*\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toULong(radix: Int): ULong = toULongOrNull(radix) ?: numberFormatException(this)\n\n/**\n * Parses
the string as an [UByte] number and returns the result\n * or `null` if the string is not a valid representation of a
number.\n * \n * @SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUByteOrNull(): UByte? = toUByteOrNull(radix = 10)\n\n/**\n * Parses the string as an [UByte] number
and returns the result\n * or `null` if the string is not a valid representation of a number.\n * \n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun

```

```

String.toUByteOrNull(radix: Int): UByte? { \n    val int = this.toUIntOrNull(radix) ?: return null\n    if (int >
UByte.MAX_VALUE) return null\n    return int.toUByte()\n}\n\n/**\n * Parses the string as an [UShort] number
and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n@\n@SinceKotlin("1.5")\n@\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun
String.toUShortOrNull(): UShort? = toUShortOrNull(radix = 10)\n\n/**\n * Parses the string as an [UShort] number
and returns the result\n * or `null` if the string is not a valid representation of a number.\n * \n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@\n@SinceKotlin("1.5")\n@\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun
String.toUShortOrNull(radix: Int): UShort? { \n    val int = this.toUIntOrNull(radix) ?: return null\n    if (int >
UShort.MAX_VALUE) return null\n    return int.toUShort()\n}\n\n/**\n * Parses the string as an [UInt] number and
returns the result\n * or `null` if the string is not a valid representation of a number.\n * \n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@\n@SinceKotlin("1.5")\n@\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun
String.toUIntOrNull(): UInt? = toUIntOrNull(radix = 10)\n\n/**\n * Parses the string as an [UInt] number and
returns the result\n * or `null` if the string is not a valid representation of a number.\n * \n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@\n@SinceKotlin("1.5")\n@\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun
String.toUIntOrNull(radix: Int): UInt? { \n    checkRadix(radix)\n    val length = this.length\n    if (length == 0)
return null\n    val limit: UInt = UInt.MAX_VALUE\n    val start: Int\n    val firstChar = this[0]\n    if (firstChar
< '0') { \n        if (length == 1 || firstChar != '+') return null\n        start = 1\n    } else { \n        start = 0\n    }\n    val
limitForMaxRadix = 119304647u // limit / 36\n    var limitBeforeMul = limitForMaxRadix\n    val uradix =
radix.toUInt()\n    var result = 0u\n    for (i in start until length) { \n        val digit = digitOf(this[i], radix)\n        if
(digit < 0) return null\n        if (result > limitBeforeMul) { \n            if (limitBeforeMul == limitForMaxRadix) { \n
                limitBeforeMul = limit / uradix\n                if (result > limitBeforeMul) { \n                    return null\n
                }\n            } else { \n                return null\n            }\n        }\n        result *= uradix\n        val beforeAdding =
result\n        result += digit.toUInt()\n        if (result < beforeAdding) return null // overflow has happened\n    }\n    return result\n}\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is
not a valid representation of a number.\n
*\n@\n@SinceKotlin("1.5")\n@\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun
String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)\n\n/**\n * Parses the string as an [ULong] number
and returns the result\n * or `null` if the string is not a valid representation of a number.\n * \n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@\n@SinceKotlin("1.5")\n@\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun
String.toULongOrNull(radix: Int): ULong? { \n    checkRadix(radix)\n    val length = this.length\n    if (length ==
0) return null\n    val limit: ULong = ULong.MAX_VALUE\n    val start: Int\n    val firstChar = this[0]\n    if
(firstChar < '0') { \n        if (length == 1 || firstChar != '+') return null\n        start = 1\n    } else { \n        start = 0\n
    }\n    val limitForMaxRadix = 512409557603043100uL // limit / 36\n    var limitBeforeMul =
limitForMaxRadix\n    val uradix = radix.toULong()\n    var result = 0uL\n    for (i in start until length) { \n        val
digit = digitOf(this[i], radix)\n        if (digit < 0) return null\n        if (result > limitBeforeMul) { \n            if
(limitBeforeMul == limitForMaxRadix) { \n                limitBeforeMul = limit / uradix\n                if (result >
limitBeforeMul) { \n                    return null\n                }\n            } else { \n                return null\n            }\n
        }\n        result *= uradix\n        val beforeAdding = result\n        result += digit.toUInt()\n        if (result <
beforeAdding) return null // overflow has happened\n    }\n    return result\n}\n\n"/\n\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@\n@file:Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n\npackage kotlin\n\nimport
kotlin.annotation.AnnotationTarget.\n\nimport kotlin.internal.RequireKotlin\n\nimport
kotlin.internal.RequireKotlinVersionKind\n\n/**\n * Marks the API that is dependent on the experimental unsigned
types, including those types themselves.\n * \n * Usages of such API will be reported as warnings unless an explicit

```

opt-in with the [OptIn] annotation, e.g. `@OptIn(ExperimentalUnsignedTypes::class)` or with the `-Xopt-in=kotlin.ExperimentalUnsignedTypes` compiler option is given. It's recommended to propagate the experimental status to the API that depends on unsigned types by annotating it with this annotation.

```

@Suppress("DEPRECATION")
@Experimental(level = Experimental.Level.WARNING)
@RequiresOptIn(level = RequiresOptIn.Level.WARNING)
@MustBeDocumented
@Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)
@Retention(AnnotationRetention.BINARY)
@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)
public annotation class ExperimentalUnsignedTypes

```

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```

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MathKt")
package kotlin.math

// constants, can't use them from nativeMath as they are not constants there
/** Ratio of the circumference of a circle to its diameter, approximately 3.14159.
 * @SinceKotlin("1.2")
 public const val PI: Double = 3.141592653589793
 ** Base of the natural logarithms, approximately 2.71828.
 * @SinceKotlin("1.2")
 public const val E: Double = 2.718281828459045
 // region =====
 Double Math =====
 ** Computes the sine of the angle [x] given in radians.
 * Special cases:
 * - `sin(NaN|+Inf|-Inf)` is `NaN`
 * @SinceKotlin("1.2")
 public expect fun sin(x: Double): Double
 ** Computes the cosine of the angle [x] given in radians.
 * Special cases:
 * - `cos(NaN|+Inf|-Inf)` is `NaN`
 * @SinceKotlin("1.2")
 public expect fun cos(x: Double): Double
 ** Computes the tangent of the angle [x] given in radians.
 * Special cases:
 * - `tan(NaN|+Inf|-Inf)` is `NaN`
 * @SinceKotlin("1.2")
 public expect fun tan(x: Double): Double
 ** Computes the arc sine of the value [x]; the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.
 * Special cases:
 * - `asin(x)` is `NaN`, when  $\text{abs}(x) > 1$  or  $x$  is `NaN`
 * @SinceKotlin("1.2")
 public expect fun asin(x: Double): Double
 ** Computes the arc cosine of the value [x]; the returned value is an angle in the range from  $0.0$  to  $\pi$  radians.
 * Special cases:
 * - `acos(x)` is `NaN`, when  $\text{abs}(x) > 1$  or  $x$  is `NaN`
 * @SinceKotlin("1.2")
 public expect fun acos(x: Double): Double
 ** Computes the arc tangent of the value [x]; the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.
 * Special cases:
 * - `atan(NaN)` is `NaN`
 * @SinceKotlin("1.2")
 public expect fun atan(x: Double): Double
 ** Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond to the rectangular coordinates `(x, y)` by computing the arc tangent of the value  $y / x$ ; the returned value is an angle in the range from  $-\pi$  to  $\pi$  radians.
 * Special cases:
 * - `atan2(0.0, 0.0)` is  $0.0$ 
 * - `atan2(0.0, x)` is  $0.0$  for  $x > 0$  and  $\pi$  for  $x < 0$ 
 * - `atan2(-0.0, x)` is  $-0.0$  for  $x > 0$  and  $-\pi$  for  $x < 0$ 
 * - `atan2(y, +Inf)` is  $0.0$  for  $0 < y < +Inf$  and  $-0.0$  for  $-Inf < y < 0$ 
 * - `atan2(y, -Inf)` is  $\pi$  for  $0 < y < +Inf$  and  $-\pi$  for  $-Inf < y < 0$ 
 * - `atan2(y, 0.0)` is  $\pi/2$  for  $y > 0$  and  $-\pi/2$  for  $y < 0$ 
 * - `atan2(+Inf, x)` is  $\pi/2$  for finite  $x$ 
 * - `atan2(-Inf, x)` is  $-\pi/2$  for finite  $x$ 
 * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`
 * @SinceKotlin("1.2")
 public expect fun atan2(y: Double, x: Double): Double
 ** Computes the hyperbolic sine of the value [x].
 * Special cases:
 * - `sinh(NaN)` is `NaN`
 * - `sinh(+Inf)` is  $+Inf$ 
 * - `sinh(-Inf)` is  $-Inf$ 
 * @SinceKotlin("1.2")
 public expect fun sinh(x: Double): Double
 ** Computes the hyperbolic cosine of the value [x].
 * Special cases:
 * - `cosh(NaN)` is `NaN`
 * - `cosh(+Inf|-Inf)` is  $+Inf$ 
 * @SinceKotlin("1.2")
 public expect fun cosh(x: Double): Double
 ** Computes the hyperbolic tangent of the value [x].
 * Special cases:
 * - `tanh(NaN)` is `NaN`
 * - `tanh(+Inf)` is  $1.0$ 
 * - `tanh(-Inf)` is  $-1.0$ 
 * @SinceKotlin("1.2")
 public expect fun tanh(x: Double): Double
 ** Computes the inverse hyperbolic sine of the value [x].
 * The returned value is `y` such that  $\sinh(y) == x$ .
 * Special cases:
 * - `asinh(NaN)` is `NaN`
 * - `asinh(+Inf)` is  $+Inf$ 
 * - `asinh(-Inf)` is  $-Inf$ 
 * @SinceKotlin("1.2")
 public expect fun asinh(x: Double): Double
 ** Computes the inverse hyperbolic cosine of the value [x].
 * The returned value is positive `y` such that  $\cosh(y) == x$ .
 * Special cases:

```

- `acosh(NaN)` is `NaN` \n * - `acosh(x)` is `NaN` when `x < 1` \n * - `acosh(+Inf)` is `+Inf` \n

`@SinceKotlin("1.2")` \n public expect fun `acosh(x: Double): Double` \n /** \n * Computes the inverse hyperbolic tangent of the value [x]. \n * \n * The returned value is `y` such that `tanh(y) == x`. \n * \n * Special cases: \n * - `tanh(NaN)` is `NaN` \n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1` \n * - `tanh(1.0)` is `+Inf` \n * - `tanh(-1.0)` is `-Inf` \n

`@SinceKotlin("1.2")` \n public expect fun `atanh(x: Double): Double` \n /** \n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow. \n * \n * Special cases: \n * - returns `+Inf` if any of arguments is infinite \n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite \n

`@SinceKotlin("1.2")` \n public expect fun `hypot(x: Double, y: Double): Double` \n /** \n * Computes the positive square root of the value [x]. \n * \n * Special cases: \n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN` \n

`@SinceKotlin("1.2")` \n public expect fun `sqrt(x: Double): Double` \n /** \n * Computes Euler's number `e` raised to the power of the value [x]. \n * \n * Special cases: \n * - `exp(NaN)` is `NaN` \n * - `exp(+Inf)` is `+Inf` \n * - `exp(-Inf)` is `0.0` \n

`@SinceKotlin("1.2")` \n public expect fun `exp(x: Double): Double` \n /** \n * Computes `exp(x) - 1`. \n * \n * This function can be implemented to produce more precise result for [x] near zero. \n * \n * Special cases: \n * - `expm1(NaN)` is `NaN` \n * - `expm1(+Inf)` is `+Inf` \n * - `expm1(-Inf)` is `-1.0` \n

`@see [exp]` function. \n

`@SinceKotlin("1.2")` \n public expect fun `expm1(x: Double): Double` \n /** \n * Computes the logarithm of the value [x] to the given [base]. \n * \n * Special cases: \n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN` \n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0` \n * - `log(+Inf, +Inf)` is `NaN` \n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1` \n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b < 1` \n * \n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2]. \n

`@SinceKotlin("1.2")` \n public expect fun `log(x: Double, base: Double): Double` \n /** \n * Computes the natural logarithm (base `E`) of the value [x]. \n * \n * Special cases: \n * - `ln(NaN)` is `NaN` \n * - `ln(x)` is `NaN` when `x < 0.0` \n * - `ln(+Inf)` is `+Inf` \n * - `ln(0.0)` is `-Inf` \n

`@SinceKotlin("1.2")` \n public expect fun `ln(x: Double): Double` \n /** \n * Computes the common logarithm (base 10) of the value [x]. \n * \n * @see [ln] function for special cases. \n

`@SinceKotlin("1.2")` \n public expect fun `log10(x: Double): Double` \n /** \n * Computes the binary logarithm (base 2) of the value [x]. \n * \n * @see [ln] function for special cases. \n

`@SinceKotlin("1.2")` \n public expect fun `log2(x: Double): Double` \n /** \n * Computes `ln(x + 1)`. \n * \n * This function can be implemented to produce more precise result for [x] near zero. \n * \n * Special cases: \n * - `ln1p(NaN)` is `NaN` \n * - `ln1p(x)` is `NaN` where `x < -1.0` \n * - `ln1p(-1.0)` is `-Inf` \n * - `ln1p(+Inf)` is `+Inf` \n * \n * @see [ln] function \n * @see [expm1] function \n

`@SinceKotlin("1.2")` \n public expect fun `ln1p(x: Double): Double` \n /** \n * Rounds the given value [x] to an integer towards positive infinity. \n * \n * @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer. \n * \n * Special cases: \n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer. \n

`@SinceKotlin("1.2")` \n public expect fun `ceil(x: Double): Double` \n /** \n * Rounds the given value [x] to an integer towards negative infinity. \n * \n * @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer. \n * \n * Special cases: \n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer. \n

`@SinceKotlin("1.2")` \n public expect fun `floor(x: Double): Double` \n /** \n * Rounds the given value [x] to an integer towards zero. \n * \n * @return the value [x] having its fractional part truncated. \n * \n * Special cases: \n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer. \n

`@SinceKotlin("1.2")` \n public expect fun `truncate(x: Double): Double` \n /** \n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer. \n * \n * Special cases: \n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer. \n

`@SinceKotlin("1.2")` \n public expect fun `round(x: Double): Double` \n /** \n * Returns the absolute value of the given value [x]. \n * \n * Special cases: \n * - `abs(NaN)` is `NaN` \n * \n * @see absoluteValue extension property for [Double] \n

`@SinceKotlin("1.2")` \n public expect fun `abs(x: Double): Double` \n /** \n * Returns the sign of the given value [x]: \n * - `-1.0` if the value is negative, \n * - zero if the value is zero, \n * - `1.0` if the value is positive \n * \n * Special case: \n * - `sign(NaN)` is `NaN` \n

`@SinceKotlin("1.2")` \n public expect fun `sign(x: Double): Double` \n /** \n * Returns the smaller of two values. \n * \n * If either value is `NaN`, then the result is `NaN`. \n

`@SinceKotlin("1.2")` \n public expect fun `min(a: Double, b: Double): Double` \n

`Double` Returns the greater of two values. If either value is `NaN`, then the result is `NaN`.
`@SinceKotlin("1.2")` public expect fun max(a: Double, b: Double): Double extensions Raises this value to the power [x]. Special cases: `-b.pow(0.0)` is `1.0`, `-b.pow(1.0) == b`, `-b.pow(NaN)` is `NaN`, `-NaN.pow(x)` is `NaN` for `x != 0.0`, `-b.pow(Inf)` is `NaN` for `abs(b) == 1.0`, `-b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer.
`@SinceKotlin("1.2")` public expect fun Double.pow(x: Double): Double extensions Raises this value to the integer power [n]. See the other overload of [pow] for details.
`@SinceKotlin("1.2")` public expect fun Double.pow(n: Int): Double Returns the absolute value of this value. Special cases: `NaN.absoluteValue` is `NaN`. @see abs function.
`@SinceKotlin("1.2")` public expect val Double.absoluteValue: Double Returns the sign of this value: `-1.0` if the value is negative, zero if the value is zero, `1.0` if the value is positive. Special case: `NaN.sign` is `NaN`.
`@SinceKotlin("1.2")` public expect val Double.sign: Double Returns this value with the sign bit same as of the [sign] value. If [sign] is `NaN` the sign of the result is undefined.
`@SinceKotlin("1.2")` public expect fun Double.withSign(sign: Double): Double Returns this value with the sign bit same as of the [sign] value.
`@SinceKotlin("1.2")` public expect fun Double.withSign(sign: Int): Double Returns the ulp (unit in the last place) of this value. An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude. Special Cases: `NaN.ulp` is `NaN`, `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`, `0.0.ulp` is `Double.MIN_VALUE`.
`@SinceKotlin("1.2")` public expect val Double.ulp: Double Returns the [Double] value nearest to this value in direction of positive infinity.
`@SinceKotlin("1.2")` public expect fun Double.nextUp(): Double Returns the [Double] value nearest to this value in direction of negative infinity.
`@SinceKotlin("1.2")` public expect fun Double.nextDown(): Double Returns the [Double] value nearest to this value in direction from this value towards the value [to]. Special cases: `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`, `x.nextTowards(x) == x`.
`@SinceKotlin("1.2")` public expect fun Double.nextTowards(to: Double): Double Rounds this [Double] value to the nearest integer and converts the result to [Int]. Ties are rounded towards positive infinity. Special cases: `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`, `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`. @throws `IllegalArgumentException` when this value is `NaN`.
`@SinceKotlin("1.2")` public expect fun Double.roundToInt(): Int Rounds this [Double] value to the nearest integer and converts the result to [Long]. Ties are rounded towards positive infinity. Special cases: `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`, `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`. @throws `IllegalArgumentException` when this value is `NaN`.
`@SinceKotlin("1.2")` public expect fun Double.roundToLong(): Long endregion region ===== Float Math
===== Computes the sine of the angle [x] given in radians. Special cases: `sin(NaN|+Inf|-Inf)` is `NaN`.
`@SinceKotlin("1.2")` public expect fun sin(x: Float): Float Computes the cosine of the angle [x] given in radians. Special cases: `cos(NaN|+Inf|-Inf)` is `NaN`.
`@SinceKotlin("1.2")` public expect fun cos(x: Float): Float Computes the tangent of the angle [x] given in radians. Special cases: `tan(NaN|+Inf|-Inf)` is `NaN`.
`@SinceKotlin("1.2")` public expect fun tan(x: Float): Float Computes the arc sine of the value [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians. Special cases: `asin(x)` is `NaN`, when `abs(x) > 1` or `x` is `NaN`.
`@SinceKotlin("1.2")` public expect fun asin(x: Float): Float Computes the arc cosine of the value [x]; the returned value is an angle in the range from `0.0` to `PI` radians. Special cases: `acos(x)` is `NaN`, when `abs(x) > 1` or `x` is `NaN`.
`@SinceKotlin("1.2")` public expect fun acos(x: Float): Float Computes the arc tangent of the value [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians. Special cases: `atan(NaN)` is `NaN`.
`@SinceKotlin("1.2")` public expect fun atan(x: Float): Float Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond to the rectangular coordinates `(x, y)` by

computing the arc tangent of the value y / x ; the returned value is an angle in the range from $-\pi$ to π radians.

Special cases:

- $\text{atan2}(0.0, 0.0)$ is 0.0
- $\text{atan2}(0.0, x)$ is 0.0 for $x > 0$ and π for $x < 0$
- $\text{atan2}(-0.0, x)$ is -0.0 for $x > 0$ and $-\pi$ for $x < 0$
- $\text{atan2}(y, +\text{Inf})$ is 0.0 for $0 < y < +\text{Inf}$ and -0.0 for $-\text{Inf} < y < 0$
- $\text{atan2}(y, -\text{Inf})$ is π for $0 < y < +\text{Inf}$ and $-\pi$ for $-\text{Inf} < y < 0$
- $\text{atan2}(y, 0.0)$ is $\pi/2$ for $y > 0$ and $-\pi/2$ for $y < 0$
- $\text{atan2}(+\text{Inf}, x)$ is $\pi/2$ for finite x
- $\text{atan2}(-\text{Inf}, x)$ is $-\pi/2$ for finite x
- $\text{atan2}(\text{NaN}, x)$ and $\text{atan2}(y, \text{NaN})$ is NaN

```

*\/n@SinceKotlin("1.2")\npublic expect fun atan2(y: Float, x: Float): Float\n\n**\n * Computes the hyperbolic
sine of the value [x].\n * Special cases:\n * - sinh(NaN) is NaN\n * - sinh(+Inf) is +Inf\n * - sinh(-
Inf) is -Inf\n
*\/n@SinceKotlin("1.2")\npublic expect fun sinh(x: Float): Float\n\n**\n * Computes the
hyperbolic cosine of the value [x].\n * Special cases:\n * - cosh(NaN) is NaN\n * - cosh(+Inf|-Inf) is
+Inf\n *\/n@SinceKotlin("1.2")\npublic expect fun cosh(x: Float): Float\n\n**\n * Computes the hyperbolic
tangent of the value [x].\n * Special cases:\n * - tanh(NaN) is NaN\n * - tanh(+Inf) is 1.0\n * - tanh(-
Inf) is -1.0\n
*\/n@SinceKotlin("1.2")\npublic expect fun tanh(x: Float): Float\n\n**\n * Computes the inverse
hyperbolic sine of the value [x].\n * The returned value is `y` such that `sinh(y) == x`.\n * Special cases:\n *
- asinh(NaN) is NaN\n * - asinh(+Inf) is +Inf\n * - asinh(-Inf) is -Inf\n
*\/n@SinceKotlin("1.2")\npublic expect fun asinh(x: Float): Float\n\n**\n * Computes the inverse hyperbolic
cosine of the value [x].\n * The returned value is positive `y` such that `cosh(y) == x`.\n * Special cases:\n *
- acosh(NaN) is NaN\n * - acosh(x) is NaN when `x < 1`\n * - acosh(+Inf) is +Inf\n
*\/n@SinceKotlin("1.2")\npublic expect fun acosh(x: Float): Float\n\n**\n * Computes the inverse hyperbolic
tangent of the value [x].\n * The returned value is `y` such that `tanh(y) == x`.\n * Special cases:\n * -
tanh(NaN) is NaN\n * - tanh(x) is NaN when `x > 1` or `x < -1`\n * - tanh(1.0) is +Inf\n * - tanh(-
1.0) is -Inf\n
*\/n@SinceKotlin("1.2")\npublic expect fun atanh(x: Float): Float\n\n**\n * Computes `sqrt(x^2 +
y^2)` without intermediate overflow or underflow.\n * Special cases:\n * - returns +Inf if any of arguments is
infinite\n * - returns NaN if any of arguments is NaN and the other is not infinite\n
*\/n@SinceKotlin("1.2")\npublic expect fun hypot(x: Float, y: Float): Float\n\n**\n * Computes the positive
square root of the value [x].\n * Special cases:\n * - sqrt(x) is NaN when `x < 0` or `x` is NaN\n
*\/n@SinceKotlin("1.2")\npublic expect fun sqrt(x: Float): Float\n\n**\n * Computes Euler's number `e` raised to
the power of the value [x].\n * Special cases:\n * - exp(NaN) is NaN\n * - exp(+Inf) is +Inf\n * -
exp(-Inf) is 0.0\n
*\/n@SinceKotlin("1.2")\npublic expect fun exp(x: Float): Float\n\n**\n * Computes `exp(x)
- 1`.\n * This function can be implemented to produce more precise result for [x] near zero.\n * Special
cases:\n * - expm1(NaN) is NaN\n * - expm1(+Inf) is +Inf\n * - expm1(-Inf) is -1.0\n * @see
[exp] function.\n
*\/n@SinceKotlin("1.2")\npublic expect fun expm1(x: Float): Float\n\n**\n * Computes the
logarithm of the value [x] to the given [base].\n * Special cases:\n * - log(x, b) is NaN if either `x` or `b` are
NaN\n * - log(x, b) is NaN when `x < 0` or `b <= 0` or `b == 1.0`\n * - log(+Inf, +Inf) is NaN\n * -
log(+Inf, b) is +Inf for `b > 1` and -Inf for `b < 1`\n * - log(0.0, b) is -Inf for `b > 1` and +Inf for `b > 1`\n
*\/n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n
*\/n@SinceKotlin("1.2")\npublic expect fun log(x: Float, base: Float): Float\n\n**\n * Computes the natural
logarithm (base `E`) of the value [x].\n * Special cases:\n * - ln(NaN) is NaN\n * - ln(x) is NaN when
`x < 0.0`\n * - ln(+Inf) is +Inf\n * - ln(0.0) is -Inf\n
*\/n@SinceKotlin("1.2")\npublic expect fun ln(x:
Float): Float\n\n**\n * Computes the common logarithm (base 10) of the value [x].\n * @see [ln] function for
special cases.\n
*\/n@SinceKotlin("1.2")\npublic expect fun log10(x: Float): Float\n\n**\n * Computes the binary
logarithm (base 2) of the value [x].\n * @see [ln] function for special cases.\n
*\/n@SinceKotlin("1.2")\npublic
expect fun log2(x: Float): Float\n\n**\n * Computes `ln(a + 1)`.\n * This function can be implemented to
produce more precise result for [x] near zero.\n * Special cases:\n * - ln1p(NaN) is NaN\n * - ln1p(x) is
NaN where `x < -1.0`\n * - ln1p(-1.0) is -Inf\n * - ln1p(+Inf) is +Inf\n * @see [ln] function\n * @see
[expm1] function\n
*\/n@SinceKotlin("1.2")\npublic expect fun ln1p(x: Float): Float\n\n**\n * Rounds the given
value [x] to an integer towards positive infinity.\n * @return the smallest Float value that is greater than or equal
to the given value [x] and is a mathematical integer.\n * Special cases:\n * - ceil(x) is `x` where `x` is NaN

```


or `+Inf` or `-Inf` or already a mathematical integer.

```

@SinceKotlin("1.2")
public expect fun ceil(x: Float):
Float
/**
 * Rounds the given value [x] to an integer towards negative infinity.
 * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.
 * Special cases:
 * - floor(x) is x where x is NaN or +Inf or -Inf or already a mathematical integer.
 */
@SinceKotlin("1.2")
public expect fun floor(x: Float): Float
/**
 * Rounds the given value [x] to an integer towards zero.
 * @return the value [x] having its fractional part truncated.
 * Special cases:
 * - truncate(x) is x where x is NaN or +Inf or -Inf or already a mathematical integer.
 */
@SinceKotlin("1.2")
public expect fun truncate(x: Float): Float
/**
 * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.
 * Special cases:
 * - round(x) is x where x is NaN or +Inf or -Inf or already a mathematical integer.
 */
@SinceKotlin("1.2")
public expect fun round(x: Float): Float
/**
 * Returns the absolute value of the given value [x].
 * Special cases:
 * - abs(NaN) is NaN
 * @see absoluteValue extension property for [Float]
 */
@SinceKotlin("1.2")
public expect fun abs(x: Float): Float
/**
 * Returns the sign of the given value [x]:
 * - -1.0 if the value is negative,
 * - zero if the value is zero,
 * - 1.0 if the value is positive
 * Special case:
 * - sign(NaN) is NaN
 */
@SinceKotlin("1.2")
public expect fun sign(x: Float): Float
/**
 * Returns the smaller of two values.
 * If either value is NaN, then the result is NaN.
 */
@SinceKotlin("1.2")
public expect fun min(a: Float, b: Float): Float
/**
 * Returns the greater of two values.
 * If either value is NaN, then the result is NaN.
 */
@SinceKotlin("1.2")
public expect fun max(a: Float, b: Float): Float
/**
 * // extensions
 */
/**
 * Raises this value to the power [x].
 * Special cases:
 * - b.pow(0.0) is 1.0
 * - b.pow(1.0) == b
 * - b.pow(NaN) is NaN
 * - NaN.pow(x) is NaN for x != 0.0
 * - b.pow(Inf) is NaN for abs(b) == 1.0
 * - b.pow(x) is NaN for b < 0 and x is finite and not an integer
 */
@SinceKotlin("1.2")
public expect fun Float.pow(x: Float): Float
/**
 * Raises this value to the integer power [n].
 * See the other overload of [pow] for details.
 */
@SinceKotlin("1.2")
public expect fun Float.pow(n: Int): Float
/**
 * Returns the absolute value of this value.
 * Special cases:
 * - NaN.absoluteValue is NaN
 * @see abs function
 */
@SinceKotlin("1.2")
public expect val Float.absoluteValue: Float
/**
 * Returns the sign of this value:
 * - -1.0 if the value is negative,
 * - zero if the value is zero,
 * - 1.0 if the value is positive
 * Special case:
 * - NaN.sign is NaN
 */
@SinceKotlin("1.2")
public expect val Float.sign: Float
/**
 * Returns this value with the sign bit same as of the [sign] value.
 * If [sign] is NaN the sign of the result is undefined.
 */
@SinceKotlin("1.2")
public expect fun Float.withSign(sign: Float): Float
/**
 * Returns this value with the sign bit same as of the [sign] value.
 */
@SinceKotlin("1.2")
public expect fun Float.withSign(sign: Int): Float
/**
 * Rounds this [Float] value to the nearest integer and converts the result to [Int].
 * Ties are rounded towards positive infinity.
 * Special cases:
 * - x.roundToInt() == Int.MAX_VALUE when x > Int.MAX_VALUE
 * - x.roundToInt() == Int.MIN_VALUE when x < Int.MIN_VALUE
 * @throws IllegalArgumentException when this value is NaN
 */
@SinceKotlin("1.2")
public expect fun Float.roundToInt(): Int
/**
 * Rounds this [Float] value to the nearest integer and converts the result to [Long].
 * Ties are rounded towards positive infinity.
 * Special cases:
 * - x.roundToLong() == Long.MAX_VALUE when x > Long.MAX_VALUE
 * - x.roundToLong() == Long.MIN_VALUE when x < Long.MIN_VALUE
 * @throws IllegalArgumentException when this value is NaN
 */
@SinceKotlin("1.2")
public expect fun Float.roundToLong(): Long
/**
 * // endregion
 */
/**
 * Integer Math
 */
/**
 * Returns the absolute value of the given value [n].
 * Special cases:
 * - abs(Int.MIN_VALUE) is Int.MIN_VALUE due to an overflow
 * @see absoluteValue extension property for [Int]
 */
@SinceKotlin("1.2")
public expect fun abs(n: Int): Int
/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.2")
public expect fun min(a: Int, b: Int): Int
/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.2")
public expect fun max(a: Int, b: Int): Int
/**
 * Returns the absolute value of this value.
 * Special cases:
 * - Int.MIN_VALUE.absoluteValue is Int.MIN_VALUE due to an overflow
 * @see abs function
 */
@SinceKotlin("1.2")
public expect val Int.absoluteValue: Int

```

```

the sign of this value:\n * - `1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value is
positive\n *\n@SinceKotlin("1.2")\npublic expect val Int.sign: Int\n\n\n/**\n * Returns the absolute value of the
given value [n].\n *\n * Special cases:\n * - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an
overflow\n *\n * @see absoluteValue extension property for [Long]\n *\n@SinceKotlin("1.2")\npublic expect fun
abs(n: Long): Long\n\n\n/**\n * Returns the smaller of two values.\n *\n@SinceKotlin("1.2")\npublic expect fun
min(a: Long, b: Long): Long\n\n\n/**\n * Returns the greater of two values.\n *\n@SinceKotlin("1.2")\npublic
expect fun max(a: Long, b: Long): Long\n\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n
*\n * - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n *\n * @see abs function\n
*\n@SinceKotlin("1.2")\npublic expect val Long.absoluteValue: Long\n\n\n/**\n * Returns the sign of this value:\n
*\n * - `1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value is positive\n
*\n@SinceKotlin("1.2")\npublic expect val Long.sign: Int\n\n\n//
endregion\n\n", "names": [], "mappings": "AAWC,CAXA,yB;EACG,IAAI,OAAO,MAAO,KAAI,UAAW,IAAG,MAA
M,IAA1C,C;IACI,MAAM,CAAC,QAAD,EAAW,CAAC,SAAD,CAAX,EAAwB,OAAxB,C;SAEL,IAAI,OAAO,O
AAQ,KAAI,QAAvB,C;IACD,OAAO,CAAC,MAAM,QAAP,C;;IAGP,IAAI,OAAQ,GAAE,E;IACd,OAAO,CAAC
,IAAI,OAAL,C;;CAEd,CAAC,IAAD,EAAO,kB;EACJ,IAAI,IAAI,M;ECPZ,MAAM,eAAgB,GAAE,a;IACpB,OA
AoD,CAA5C,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAE,YAAW,SAAW,KAAg,CAAC,OAAQ,KAAI,c;G
;EAGxE,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,SAAU,IAAG,CAAC,OAAQ,KAAI,c;G;EAGID,M
AAM,aAAc,GAAE,a;IACiB,OAAO,CAAE,YAAW,U;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,Y
AAW,WAAY,IAAG,CAAC,OAAQ,KAAI,W;G;EAGpD,MAAM,WAAY,GAAE,a;IACbB,OAAO,CAAE,YAAW,
U;G;EAGxB,MAAM,aAAc,GAAE,a;IACiB,OAAO,CAAE,YAAW,Y;G;EAGxB,MAAM,cAAe,GAAE,a;IACnB,O
AAO,CAAE,YAAW,Y;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OAAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IA
AG,CAAC,OAAQ,KAAI,W;G;EAG5C,MAAM,QAAS,GAAE,a;IACb,OAAO,KAAK,QAAQ,CAAC,CAAD,CAA
I,IAAG,CAAC,CAAC,O;G;EAGjC,MAAM,WAAY,GAAE,a;IACbB,OAAO,KAAK,QAAQ,CAAC,CAAD,CAAI,
IAAG,WAAW,OAAO,CAAC,CAAD,C;G;EAGjD,MAAM,cAAe,GAAE,a;IACnB,IAAI,CAAE,KAAI,IAAV,C;M
AAgB,OAAO,M;IACvB,IAAI,WAAW,MAAM,YAAY,CAAC,CAAD,CAAI,GAAE,MAAM,aAAR,GAAwB,MA
AM,S;IACnE,OAAO,GAAl,GAAE,KAAK,UAAU,IAAI,KAAK,CAAC,CAAD,EAAl,a;MAAc,OAAO,QAAQ,CA
AC,CAAD,C;KAAjC,CAAwC,KAAK,CAAC,IAAD,CAAO,GAAE,G;G;EAG/F,MAAM,kBAAmB,GAAE,e;IACv
B,OAAO,MAAM,OAAO,YAAY,wBAAwB,CAAC,GAAD,C;G;EAG5D,MAAM,YAAa,GAAE,gB;IACjB,IAAI,C
AAE,KAAI,CAAV,C;MACI,OAAO,I;KAEX,IAAI,CAAE,KAAI,IAAK,IAAG,CAAE,KAAI,IAAK,IAAG,CAAC,
MAAM,WAAW,CAAC,CAAD,CAAI,IAAG,CAAC,OAAQ,KAAI,CAAC,OAAvE,C;MACI,OAAO,K;KAGX,KA
AK,IAAI,IAAI,CAAR,EAAW,IAAI,CAAC,OAArB,EAA8B,CAAE,GAAE,CAAIC,EAAqC,CAAC,EAAtC,C;MA
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,C;QACI,OAAO,K;;IAGf,OAAO,I;G;EAGX,MAAM,gBAAiB,GAAE,gB;IACrB,OAAO,MAAM,OAAO,YAAY,s
BAAsB,CAAC,CAAD,EAAl,CAAJ,C;G;EAGID,MAAM,cAAe,GAAE,e;IACnB,IAAI,GAAl,KAAI,IAAZ,C;MA
AkB,OAAO,C;IACzB,IAAI,SAAS,C;IACb,KAAK,IAAI,IAAI,CAAR,EAAW,IAAI,GAAG,OAAvB,EAAGC,CAA
E,GAAE,CAApC,EAAuC,CAAC,EAAX,C,C;MACI,MAAO,GAAqB,CAAjB,EAAG,GAAE,MAAO,GAAE,CAAG
,IAAE,MAAM,SAAS,CAAC,GAAG,CAAC,CAAD,CAAJ,CAAU,GAAE,C;;IAE7D,OAAO,M;G;EAGX,MAAM,
kBAAmB,GAAE,e;IACvB,OAAO,MAAM,OAAO,YAAY,wBAAwB,CAAC,GAAD,C;G;EAG5D,MAAM,mBAA
oB,GAAE,iB;IACxB,KAAK,KAAK,CAAC,MAAM,gBAAP,C;G;ECPFd,MAAM,eAAgB,GAAE,mB;IACpB,CA
AC,aAAc,GAAE,I;IACjB,OAAO,C;G;EAGX,MAAM,uBAAwB,GAAE,4C;IAC5B,MAAM,IAAK,GAAE,M;IAC
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BAt5SIB,WAs5S2B,IAt5S3B,CAAJ,C;YAA2C,sBA5SZ,IAt5SY,C;;QA7G/C,OA+GO,W;O;KAvHX,C;kGAWA,
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SY,C;;QAhh/C,OAkhO,W;O;KA1HX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAGB,gB;QAigTV,gB;Q
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th/C,OAwhO,W;O;KAhIX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAGB,gB;QA+/SV,gB;QADb,YAA
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,gB;QAAa,WAAA,SAAb,M;QAAMB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,W
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A,iB;UACA,IAAK,WAAI,OAAJ,C;;QA7PT,OA+PO,W;O;KAxQX,C;sFAYA,yB;MAAA,wE;MA+PA,+D;MA/P
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ST,OAuSO,W;O;KAjTX,C;uFAaA,yB;MAAA,wE;MAuSA,+D;MAvSA,yD;QAUW,kBAAU,oB;QAUdSD,Q;QAAh
B,iD;UAAgB,cAAhB,e;UACI,UAxSiD,WAwSvC,CAAY,OAAZ,C;UOxoVP,U;UADP,YP0oVe,W01oVH,WP0o
VwB,GO1oVxB,C;UACL,IAAI,aAAJ,C;YACH,aPwoVuC,gB;YAA5B,W0voVX,aPuoVgC,GOvoVhC,EAAS,MA
AT,C;YACA,e;;YAEA,c;;UPooVA,iB;UACA,IAAK,WA1SyD,cA0SrD,CAAE,OAAf,CAAJ,C;;QA1ST,OA4SO,W
;O;KAiTX,C;uFAaA,yB;MAAA,wE;MA4SA,+D;MA5SA,yD;QAUW,kBAAU,oB;QA4SD,Q;QAAhB,iD;UAAgB,
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;YAEA,c;;UPspVA,iB;UACA,IAAK,WASyD,cA+SrD,CAAE,OAAf,CAAJ,C;;QA/ST,OAiTO,W;O;KA3TX,C;uF
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T,C;YACA,e;;YAEA,c;;UaqoCA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAFx,C;4FA
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,C;;MAEX,OAAO,G;K;iFAGX,+B;MAYoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,
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,Q;QADhB,Y;QACgB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,O
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;O;KmC0GvC,C;mFAWA,yB;MAAA,8C;MnBhHA,+B;MmBgHA,4B;QAQI,OnB9GsC,emB8GvB,MAAR,iBAA
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hB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,
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gB/B,+B;eoC6gB+B,6B;UAAA,qB;YAAE,yBpCngBS,eoCmgBC,EpCngBD,CoCmgBT,C;W;S;OAAF,C;MAP/B,
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;K;iDAEIC,Y;MACI,YAAAY,W;MACZ,IAAI,cAAS,mBAAT,CAAJ,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAa,6B;QAC3B,iBAAU,K;;QAGV,8BAAQ,SAAR,C;;MAEJ,OAAO,K;K;;IC9DX,oD;MA6CA,uC;MAtCI,IAAI,SAAQ,CAAZ,C;QAAe,MAAa,gCAAYB,wBAAzB,C;MAC5B,IAAI,SAAQ,WAAZ,C;QAA2B,MAAa,gCAAYB,wEAAzB,C;MAG5C,aAGyB,K;MAEzB,YAGuF,OAA/D,0BAA0B,KpBcR,IoBdlB,EAAcS,YpBcpB,IoBdlB,EAAyD,IAAzD,CAA+D,C;MAEvF,YAGuB,I;K;yCAEvB,Y;MAAwC,mCAAwB,UAAxB,EAA+B,SAA/B,EAAqC,SAAR,C,C;K;wCAExC,Y;MAMqC,OAAI,YAAO,CAAX,GAAc,aAAQ,SAATB,GAAgC,aAAQ,S;K;uCAE7E,iB;MACI,iDA6B,kBAAa,KAAM,UAAAnB,KAC7B,eAAS,KAAM,MAAf,IAAwB,cAAQ,KAAM,KAAtC,IAA8C,cAAQ,KAAm,KAD/B,CAA7B,C;K;yCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,OAAM,OAkK,UpBRG,IoBQR,UAAkC,SpBRV,IoBQR,KAAN,SAAqC,SAAR,C,I;K;yCAE5B,Y;MAAkC,OAAI,YAAO,CAAX,GAAc,oBAAE,UAAf,+BAAU,SAAV,eAAqB,SAAnC,GAA8C,oBAAE,UAAf,qCAAgB,SAAhB,gBAA4B,CAAC,SAAD,IAA5B,C;K;IAEHf,qC;MAAA,yC;K;kEACI,sC;MAQ2F,2BAAgB,UAAhB,EAA4B,QAA5B,EAAcS,IAAtC,C;K;;;IAT/F,iD;MAAA,gD;QAAA,+B;OAAA,yC;K;;IAiBA,mD;MA6CA,sC;MAtCI,IAAI,SAAQ,CAAZ,C;QAAe,MAAa,gCAAYB,wBAAzB,C;MAC5B,IAAI,SAAQ,WAAZ,C;QAA2B,MAAa,gCAAYB,wEAAzB,C;MAG5C,aAGwB,K;MAExB,YAGuB,0BAA0B,KAA1B,EAAiC,YAAjC,EAA+C,IAA/C,C;MAEvB,YAGuB,I;K;wCAEvB,Y;MAAuC,kCAAuB,UAAvB,EAA8B,SAA9B,EAAoC,SAAPC,C;K;uCAEvC,Y;MAMqC,OAAI,YAAO,CAAX,GAAc,aAAQ,SAATB,GAAgC,aAAQ,S;K;sCAE7E,iB;MACI,gDAA4B,kBAAa,KAAM,UAAAnB,KAC5B,eAAS,KAAM,MAAf,IAAwB,cAAQ,KAAM,KAAtC,IAA8C,cAAQ,KAAM,KADhC,CAA5B,C;K;wCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,OAAM,MAAK,UAAAL,QAAa,SAAb,IAAN,SAA2B,SAA3B,I;K;wCAE5B,Y;MAAkC,OAAI,YAAO,CAAX,GAAgB,UAAf,qBAAU,SAAV,cAAqB,SAAnC,GAAgD,UAAf,2BAAgB,SAAhB,eAA4B,CAAC,SAAD,IAA5B,C;K;IAEHf,oC;MAAA,wC;K;iEACI,sC;MAQwF,0BAAe,UAAf,EAA2B,QAA3B,EAAqC,IAAR,C,C;K;;;IAT5F,gD;MAAA,+C;QAAA,8B;OAAA,wC;K;;IAiBA,oD;MA6CA,uC;MAtCI,IAAI,gBAAJ,C;QAAgB,MAAa,gCAAYB,wBAAzB,C;MAC7B,IAAI,sCAAJ,C;QAA4B,MAAa,gCAAYB,yEAAzB,C;MAG7C,aAGyB,K;MAEzB,YAGwB,4BAA0B,KAA1B,EAAiC,YAAjC,EAA+C,IAA/C,C;MAExB,YAGwB,I;K;yCAExB,Y;MAAwC,mCAAwB,UAAxB,EAA+B,SAA/B,EAAqC,SAAR,C,C;K;wCAExC,Y;MAMqC,OAAI,uBAAO,CAAX,GAAc,2BAAQ,SAAR,KAAAd,GAAgC,2BAAQ,SAAR,K;K;uCAErE,iB;MACI,iDAA6B,kBAAa,KAAM,UAAAnB,KAC7B,mBAAS,KAAM,MAAf,KAAwB,kBAAQ,KAAM,KAAAd,CAAxB,IAA8C,kBAAQ,KAAM,KAAAd,CADjB,CAA7B,C;K;yCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,iCAAM,iCAAM,eAAW,8BAAW,EAAX,CAAX,CAAN,MAAoC,cAAU,6BAAU,EAAV,CAAV,CAAPC,CAAN,MAAuE,cAAU,6BAAU,EAAV,CAAV,CAAvE,CAAiG,Q;K;yCAE7H,Y;MAAkC,OAAI,uBAAO,CAAX,GAAgB,UAAf,qBAAU,SAAV,yBAAqB,SAAR,B,WAAAd,GAAgD,UAAf,2BAAgB,SAAhB,yBAA6B,SAAD,AA5B,W;K;IAEHf,qC;MAAA,yC;K;kEACI,sC;MAQ4F,2BAAgB,UAAhB,EAA4B,QAA5B,EAAcS,IAAtC,C;K;;;IAThG,iD;MAAA,gD;QAAA,+B;OAAA,yC;K;;;6CCiKA,iB;MAGkD,+BAAS,UAAAT,UAAkC,wBAAS,iBAAT,M;K;oCAEpE,Y;MAKgC,oCAAQ,iBAAR,K;K;;I7CpBd,wC;MAsBIB,iC;MAtBsD,2BAAgB,KAAhB,EAAuB,YAAvB,EAAqC,CAAR,C,C;K;kFAC7B,Y;MAAQ,8B;K;yFACD,Y;MAAQ,6B;K;2CAExC,iB;MAA8C,qBAAS,KAAT,IAAkB,SAAS,S;K;kCAEzE,Y;MAKkC,oBAAQ,S;K;iCAE1C,iB;MACI,2CAAuB,kBAaAa,KAAM,UAAAnB,KACvB,eAAS,KAAM,MAAf,IAAwB,cAAQ,KAAM,KADf,CAAvB,C;K;mCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,OAkK,UwBkBS,IxBIBd,UAAkC,SwBkBJ,IxBIBd,K;K;mCAE5B,Y;MAAkC,2BAAE,UAAf,+BAAU,SAAV,C;K;IAEIC,+B;MAAA,mC;MACI,aAC8B,cAAy,OAAf,CAAE,CAAZ,EAAwB,OAAf,CAAE,CAAxB,C;K;;;IAFiC,2C;MAAA,0C;QAAA,yB;OAAA,mC;K;;IASiB,uC;MAsBjB,gC;MAtBmD,0BAe,KAAf,EAAcS,YAAATB,EAAoC,CAAPC,C;K;iFAC3B,Y;MAAQ,iB;K;wFACD,Y;MAAQ,gB;K;0CAEvC,iB;MAA6C,qBAAS,KAAT,IAAkB,SAAS,S;K;iCAExE,Y;MAKkC,oBAAQ,S;K;gCAE1C,iB;MACI,0CAAsB,kBAaAa,KAAM,UAAAnB,KACtB,eAAS,KAAM,MAAf,IAAwB,cAAQ,KAAM,KADhB,CAAtB,C;K;kCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,MAAK,UAAAL,QAAa,SAAb,I;K;kCAE5B,Y;MAAkC,OAAE,UAAf,qBAAU,S;K;IAE5C,8B;MAAA,kC;MACI,aAC6B,aAAS,CAAT,EAAY,CAAZ,C;K;;;IAFjC,0C;MAAA,yC;QAAA,wB;OAAA,kC;K;;IASkC,wC;MAsBIB,iC;MAtBsD,2BAAgB,KAAhB,EAAuB,YAAvB,K;K;kFAC7B,Y;MAAQ,iB;K;yFACD,Y;MAAQ,gB;K;2CAExC,iB;MAA8C,kCAAS,KAAT,UAAkC,sBAAS,SAAT,M;K;kCAEhE,Y;MAKkC,kCAAQ,SAAR,K;K;iCAEIC,iB;MACI,2CAAuB,kBAaAa,KAAM,UAAAnB,KACvB,mBAAS,KAAM,MAAf,KAAwB,kBAaAQ,KAAM,KAAAd,CADD,CAAvB,C;K;mCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,iCAAM,eAAW,8BAAW,EAAX,CAAX,CAAN,MAAoC,cAAU,6BAAU,EAAV,CAAV,CAAPC,CAA8D,Q;K;mCAE1F,Y;MAAkC,O

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mB,C;K;mFAG9B,yB;MAAA,iB;MAAA,uB;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;KARIB,C;mF
AWA,yB;MAAA,iB;MAAA,uB;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;KARIB,C;IAWA,2B;MA
OI,OAAO,SAAM,CAAN,EAAS,SAAM,CAAN,EAAS,CAAT,CAAT,C;K;mFAGX,yB;MAAA,iB;MAAA,0B;QA
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W,UAAe,CAPeX,iBAoEc,CAPeD,MAAJ,GAoEe,CAPeF,GAoEkB,C;MAAzB,OAAa,CAPeF,iBAAK,GAAL,MA
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;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAxHV,MAAO,KAwHe,GAxH
f,EAwHoB,CaxHpB,C;;MAyHd,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;
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;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5IV,MAAO,KA4I

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F,KxC6SE,IAqgHT,gBAAR,iBAAQ,C;OArgHT,U;MAAA,S;QAAA,SAAsC,sBwC7StB,KxC6SsB,C;;QwC7Sb,M
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,IAAS,C;MAAT,S;QAAC,OwC/SF,KxC+SE,IA6/GT,gBAAR,iBAAQ,C;OA7/GT,U;MAAA,S;QAAA,SAAsC,sBw
C/StB,KxC+SsB,C;;QwC/Sb,MAAM,8BAA0B,iCAAUb,cAAvB,MAA1B,C;;MAATc,a;K;IAGJ,wC;MxCwTe,Ww
ChTY,KxCgTZ,IAAS,C;MAAT,S;QAAC,OwChTF,KxCgTE,IAy/GT,gBAAR,iBAAQ,C;OAz/GT,U;MAAA,S;QA
AA,SAAsC,sBwChTtB,KxCgTsB,C;;QwChTb,MAAM,8BAA0B,iCAAUb,cAAvB,MAA1B,C;;MAATc,a;K;IASO,
6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;s
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AQ,EwCz6BwB,O3E2NN,KmC8sB1B,C;K;;IwC/7BnB,6B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FA
CW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;sDAC9C,mB;MAAiD,OAAA,gBA
AY,gBAAS,OAAT,C;K;mDAC7D,iB;MACI,oCAAA,2BAAkB,KAA1B,EAAYB,SAAzB,C;MACb,OAAO,6BAAY,
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DAC7D,iB;MACI,oCAAA,2BAAkB,KAA1B,EAAYB,SAAzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;
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,8B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAk
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A,iC;MAGI,OAAsB,UAAy,QAAvB,KAAmC,SAA9C,GACe,UAAy,UAD3B,GAGI,gBAAgB,UAAhB,C;K;IAG
R,qC;MAEI,YoC1B2C,E;Mpc2B3C,eAAe,UAAW,W;MAC1B,OAAO,QAAS,UAAhB,C;QACU,KAAy,MAAK,
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,yB;MAAA,uE;MAAA,0C;QAIyC,gBAA9B,mBAAoB,QAApB,C;QAAoC,aJtC3C,W;QIsCA,OJrCO,SIqCmD,Q;
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GJ,2C;MACI,IAAI,IAAK,KAAL,IAAa,CAAJB,C;QAAoB,M;MAEpB,YAAY,YAAY,IAAZ,C;MACZ,gBAAC,KA
Ad,EAaqB,UAArB,C;MAEA,aAAU,CAAV,MAAkB,KAAM,OAAxB,M;QACI,iBAAK,CAAL,EAAU,MAAM,C
AAN,CAAV,C;;K;IAIR,uC;MACI,OAAO,gBAAkB,IAAlB,O;K;IAGX,iF;MAII,oCAAA,2BAAkB,UAAIB,EAA8B
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;OAEJ,OAAO,K;K;IAGX,mC;MAEI,IAAI,QAAQ,CAAZ,C;QACI,oB;OAEJ,OAAO,K;K;IAIX,mC;MAIqD,mB;K
;IAErD,wC;MPzNI,IAAI,EOgOI,YAAY,CPhOhB,CAAJ,C;QACI,cO+NqB,gC;QP9NrB,MAAM,gCAAYB,OAAQ,
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Ad,C;QACA,UAAU,I;;MAEd,OAAO,O;K;0CAGX,Y;MACI,qB;MACA,yBAAY,CAAZ,EAAe,SAAF,C;K;IAKiB,
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DAGvE,8B;MAA4E,uCAAQ,IAAR,EAAC,SAAd,EAAYB,OAAzB,C;K;wDAE5E,8B;MAII,eAAe,0BAAa,SAAb,
C;MACf,YAAO,UAAU,SAAV,I;MnEuDX,iBAAC,CAAd,UAAsB,KAAtB,U;QmEtDiB,e;QACA,iB;;K;2CAIjB,iB
;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,oCA
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AsC,sBAAQ,C;K;+DAE9C,Y;MAAGC,mB;K;8DAEHc,Y;MACI,IAAI,CAAC,kBAAL,C;QAAoB,MAAM,6B;MA

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;+DAEpC,mB;MACI,wBAAI,YAAJ,EAAW,OAAO,C;MACA,mC;MACA,cAAO,E;K;+DAGX,mB;MtEIFJ,IAAI,
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BAAI,WAAJ,EAAU,OAAV,C;K;;IAIgB,+D;MAAuF,8B;MAAtF,kB;MAA0C,4B;MAC/D,eAAyB,C;MAGrB,oC
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0B;MACI,oCAAA,4BAAMb,KAAAnB,EAA0B,YAA1B,C;MAEb,WAAK,aAAI,mBAAY,KAAZ,IAAJ,EAAuB,OA
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;K;2DAE/B,Y;MAA+C,WAAK,iB;K;;ICxMN,8B;MAAiC,sB;MAwCnF,uBAAoC,I;MA+CpC,yBAA6C,I;K;IAIF
R,oD;MAAC,wB;MAGIC,gBAAqB,K;K;IFAHa,Y;MAAA,yB;K;uGAKZ,Y;MAAQ,oB;K;8DAE9B,oB;MAKI,eA
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EAAc,IAAd,C;K;sDACIC,iB;MAA4C,+DAAY,IAAZ,EAAb,KAAIB,C;K;;IAIB5C,8E;MAAA,wE;MAAsC,2CA
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B,6G;K;0FAOJ,mB;MACI,qB;MACA,IAAI,+CAAY,OAAZ,CAAJ,C;QACI,4BAAwB,cAAO,OAAAP,C;QACxB,O
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;MACI,qB;MACA,WAAW,YAAQ,W;MACnB,OAAO,IAAK,UAAZ,C;QACI,YAAY,IAAK,O;QACjB,QAAQ,KA
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AO,I;K;kDAIX,Y;K;;IC3I+C,8B;MAAiC,oC;K;0CAEHf,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3
B,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,OAAO,mCAAY,mBAAU,IAAV,EAAGB,KAAhB,C;K;4CAGvB,Y;
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BIC,Y;MAEI,qB;MACA,4BAAa,I;MACb,OAAO,I;K;qCAGX,Y;K;iDAGA,uB;K;iFAG8B,Y;MAAQ,OAAA,oBA
AM,O;K;sCAC5C,iB;MACyC,Q;MAAA,oCAAM,0BAAW,KAAX,CAAN,4D;K;sCACzC,0B;MAIW,IAAa,I;MA
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,qC;K;yCAGJ,oB;MACI,qB;MACA,IAAI,QAAS,UAAb,C;QAAwB,OAAO,K;MAE/B,uBAAA,oBxEioDoB,QMjr
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ACA,OAAW,UAAS,sBAAb,GACG,oBAAy,MADf,GAGG,oBAAy,QAAO,KAAP,EAAC,CAAd,CAAIB,CAAm
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CAGX,8B;MACI,qB;MACA,qC;MACM,oBAAY,QAAO,SAAP,EAakB,UAAU,SAAV,IAAIb,C;K;gCAGtB,Y;M
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,OAAO,CAAP,IAAY,S;YACZ,6B;;YAEA,OAAO,CAAP,IAAY,U;YACZ,+B;;eAGR,iBAaA,MAAb,C;UACI,OA
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B;K;gGACA,Y;MAAA,sC;K;sCACA,Y;MAAkC,gB;K;;IAJtC,oC;MAAA,mC;QAAA,kB;OAAA,4B;K;IAOA,iC;MACI,QAAM,SAAN,M;aACI,W;UADJ,OAC2B,E;aACvB,I;UAFJ,OAEoB,K;aAchB,K;UAHJ,OAGqB,M;gBAHrB,mC;;K;IC3CkC,oE;MACIC,0B;MACA,wC;MACA,kC;MACA,oC;K;sEAHA,Y;MAAA,0B;K;6EACA,Y;MAAA,iC;K;0EACA,Y;MAAA,8B;K;2EACA,Y;MAAA,+B;K;4CAEA,Y;MAAkC,gB;K;;8CANtC,Y;MACI,gB;K;8CADJ,Y;MAEI,uB;K;8CAFJ,Y;MAGI,oB;K;8CAHJ,Y;MAII,qB;K;gDAJJ,kD;MAAA,8BACI,kCADJ,EAEL,uDAFJ,EAAGI,8CAHJ,EAII,iDAJJ,C;K;4CAA,Y;MAAA,c;MACI,qD;MACA,4D;MACA,yD;MACA,0D;MAJJ,a;K;0CAA,A,iB;MAAA,4IACI,oCADJ,IAEL,kDAFJ,IAGI,4CAHJ,IAII,8CAJJ,I;K;ICAA,4B;MAAA,gC;MAEI,gBACe,wBAoB,MAApB,EAA6D,KAA7D,EAAoE,gCAApE,C;MAEf,mBACKB,wBAoB,MAApB,EAAgE,QAAhE,EAA0E,mCAA1E,C;MAEIB,oBACmB,+B;MAEnB,oBACmB,wBAoB,OAAPB,EAAkE,SAAlE,EAA6E,oCAA7E,C;MAEnB,iBACgB,wBAoB,MAApB,EAA8D,MAA9D,EAASe,iCAAtE,C;MAEhB,kBACiB,wBAoB,MAApB,EAAD,OAA/D,EAAwE,kCAAxE,C;MAEjB,gBACe,wBAoB,MAApB,EAA6D,KAA7D,EAAoE,gCAApE,C;MAEf,kBACiB,wBAoB,MAApB,EAA+D,OAA/D,EAAwE,kCAAxE,C;MAEjB,mBACKB,wBAoB,MAApB,EAAgE,QAAhE,EAA0E,mCAA1E,C;MAEIB,kBACiB,wBAoB,KAAPB,EAAiE,OAAjE,EAA0E,kCAA1E,C;MAEjB,mBACKB,wBAoB,MAApB,EAAgE,QAAhE,EAA0E,mCAA1E,C;MAEIB,sBACqB,wBAoB,KAAPB,EAAkE,WAAIE,EAA+E,sCAA/E,C;MAErB,yBACwB,wBAoB,KAAPB,EAAqE,cAArE,EAAqF,yCAArF,C;MAExB,sBACqB,wBAoB,WAApB,EAAwE,WAAxE,EAAqF,sCAArF,C;MAErB,sBACqB,wBAoB,SAAPB,EAASe,WAAtE,EAAmF,sCAAnF,C;MAErB,uBACsB,wBAoB,UAApB,EAAwE,YAAxE,EAAfE,uCAAtF,C;MAEtB,qBACoB,wBAoB,UAApB,EAASe,UAAtE,EAAkF,qCAAlF,C;MAEpB,sBACqB,wBAoB,KAAPB,EAAkE,WAAIE,EAA+E,sCAA/E,C;MAErB,uBACsB,wBAoB,YAApB,EAA0E,YAA1E,EAAwF,uCAAxF,C;MAEtB,wBACuB,wBAoB,YAApB,EAA2E,aAA3E,EAA0F,wCAA1F,C;K;IAMkB,qE;MAAA,qB;QAAE,OtE/DD,OsE+DU,EAAT,KAAiB,UAAjB,IAAkC,EAAY,OAAf,KAA0B,a;O;K;+CAJpG,iB;MAE2B,Q;MAAhB,U;MAAA,KAAgB,OAAhB,eAAgB,CAAI,KAAJ,CAAhB,U;QAAA,a;;QACH,aAAa,wBAoB,QAApB,EAA+D,kBAA/D,EACoB,mDADpB,C;QAEg,eAAhB,UAAqC,M;QAHIC,SAIH,M;;MAJJ,a;K;IA7D+E,8C;MAAE,6B;K;IAGO,iD;MAAE,0B;K;IAME,kD;MAAE,8B;K;IAGZ,+C;MAAE,6B;K;IAGC,gD;MAAE,6B;K;IAGR,8C;MAAE,6B;K;IAGI,gD;MAAE,6B;K;IAGC,iD;MAAE,6B;K;IAGH,gD;MAAE,yB;K;IAGD,iD;MAAE,6B;K;IAGM,oD;MAAE,mC;K;IAGO,uD;MAAE,gC;K;IAGL,oD;MAAE,6B;K;IAGJ,oD;MAAE,6B;K;IAGE,qD;MAAE,8B;K;IAGR,mD;MAAE,4B;K;IAGJ,oD;MAAE,6B;K;IAGQ,qD;MAAE,8B;K;IAGC,sD;MAAE,+B;K;;IA5DvH,wC;MAAA,uC;QAAA,sB;OAAA,gC;K;;ICCA,2B;MAEW,Q;MAAA,IAAI,KAAy,SAAQ,MAAR,CAAhB,C;QACH,kBAAW,MAAX,C;;QAEA,kBAAW,MAAX,C;;MAHJ,W;K;IAOJ,8B;MAC4E,QAAM,QAAS,OAAf,C;aACxE,C;UADwE,OACnE,WAAW,SAAS,CAAT,CAAX,C;aACL,C;UAFwE,OAEnE,+B;gBAFmE,OAGhE,iB;;K;IAGZ,oC;MAEU,IAAN,I;MAAA,QvEhB0C,OuEgB3B,CAAF,C;aACI,Q;UAA6B,OAAjB,8BAAiB,Y;UAA7B,K;aACA,Q;UAAy,OAAI,CAAY,C9DbhC,G8DamC,CAAF,MAAkC,CAAtC,GAAyC,8BAAiB,SAA1D,GAAwE,8BAAiB,Y;UAArG,K;aACA,S;UAA8B,OAAjB,8BAAiB,a;UAA9B,K;aACA,U;UAA+B,OAAjB,8BAAiB,eAAgB,CAAY,OAA5B,C;UAA/B,K;gBAGQ,6B;YAAc,OAAjB,8BAAiB,kB;eACtC,0B;YAAmC,OAAjB,8BAAiB,e;eACnC,0B;YAAmC,OAAjB,8BAAiB,e;eACnC,2B;YAAoC,OAAjB,8BAAiB,gB;eACpC,yB;YAAkC,OAAjB,8BAAiB,c;eACIC,0B;YAAmC,OAAjB,8BAAiB,e;eACnC,2B;YAAoC,OAAjB,8BAAiB,gB;eACpC,4B;YAAqC,OAAjB,8BAAiB,iB;eACrC,6B;;eACA,sB;YAAkC,OAAjB,8BAAiB,W;;YAE9B,kBAAkB,MAAA,gBAAE,CAAF,CAAKB,Y;YAE7C,oBAAGB,MAAhB,C;cAAiD,OAAjB,8BAAiB,S;iBACjD,oBAAGB,KAAhB,C;cAAgD,OAAjB,8BAAiB,e;;cAE5C,cAA0B,W;cAC1B,kBAAW,OAAAX,C;;;UAXBxB,K;;MAAA,W;K;IAGCJ,4B;MAMW,Q;MAJP,IAAI,WAAW,MAAF,C;QAA6B,OAAO,8BAAiB,Y;OAErD,eAAsB,MAAY,W;MAE3B,IAAI,gBAAJ,C;QACH,IAAI,QAAS,SAAT,QA AJ,C;UACI,aAAa,qBAAiB,MAAJB,C;UACb,oBAAsB,M;UACtB,a;;UAES,OAAT,QAAS,S;;;QAGb,4BAAiB,MAAJB,C;;MATJ,W;K;ICrCJ,0B;MAII,sBAAy,C;K;qEAChB,4B;MAIkE,iBAAy,KAAZ,C;K;2EAEIE,qB;MAI8D,gB;K;ICIDb,2C;MAC7C,qBAAwC,Q;K;iDAExC,Y;MACmB,Q;MAAA,yB;MAAA,iB;QAAe,MAAM,6BAAsB,0CAAtB,C;OAApC,eAAe,I;MACf,qBAAc,I;MACd,OAAO,QAAS,W;K;;;ICLa,kD;MADrC,e;MACsC,0B;MAAyB,gB;MAD/D,iB;MAAA,uB;K;IAAA,mC;MAAA,sC;O;MAEI,qEAGW,CAHX,EAGc,IAHd,C;MAKA,iFAGiB,CAHjB,EAGoB,IAHpB,C;MAKA,iFAGiB,CAHjB,EAGoB,IAHpB,C;MAKA,+EAGgB,CAHhB,EAGmB,IAHnB,C;MAKA,yEAGa,CAHb,EAGgB,IAHhB,C;MAKA,iFAGiB,CAHjB,EAGoB,IAHpB,C;MAKA,6EAGe,CAHf,EAGkB,IAHIB,C;MAKA,6FAGuB,CAHvB,EAG0B,IAH1B,C;MAKA,yFAGqB,CAHrB,EAGwB,IAHxB,C;MAKA,4EAGc

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F,CAC/F,E8J1XgD,W9J0XhD,E8J1XiE,I9J0XjE,C;;Q8JzXW,IvKtT6C,CAAC,cuKsT9C,C;U9JyXX,U8JxXQ,kB9J
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,OAC5C,U;aACL,C;UAFiD,OC/X8B,uB;gBd+X9B,OAGzC,uB;;K;IAGZ,iC;MAMmE,4BAAC,SAAd,C;K;IAEnE,
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CI,C;YAAA,K;eACA,C;YACI,IAAI,kCAAe,UAAAnB,C;cACI,eAAQ,C;cACR,OAAO,I;;cAEP,sBA Ae,I;;;YALvB,
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B;MACV,aAAa,a;MACb,gBAAW,I;MACX,iBAAY,E;MAEZ,OAAO,yE;K;iEAGX,Y;MACI,IAAI,mBAAa,EAaj
B,C;QACI,iB;MACJ,OAAO,mBAAa,C;K;;2CAhC5B,Y;MAAuC,yD;K;;IA2C3C,qD;MAAY,0B;MAAmC,gC;K;I
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;K;;0CARxB,Y;MAAQD,wD;K;;IAmBzD,0D;MACI,4B;MACA,4B;MACA,4B;K;IAEuC,sE;MAAA,gD;MACnC,i
BAAgB,gCAAU,W;MAC1B,iBAAgB,gCAAU,W;K;4DAC1B,Y;MACI,OAAO,sCAAU,cAAU,OAAPB,EAA4B,c
AAU,OAA tC,C;K;+DAGX,Y;MACI,OAAO,cAAU,UAAV,IAAuB,cAAU,U;K;;yCARhD,Y;MAAuC,uD;K;;IAc3

C,6D;MACI,0B;MACA,gC;MACA,0B;K;IAEuC,4E;MAAA,sD;MACnC,gBA Ae,kCAAS,W;MACxB,oBAAiC,I;K ;+DAEjC,Y;MACI,IAAI,CAAC,2BAAL,C;QACI,MAAM,6B;MACV,OAAO,gCA Ae,O;K;kEAG1B,Y;MACI,OA AO,2B;K;+EAGX,Y;MACQ,Q;MAAJ,IAAI,iEAA2B,KAA/B,C;QACI,oBAAe,I;MAEnB,OAAO,yBAAP,C;QACI ,IAAI,CAAC,aAAS,UAA d,C;UACI,OAAO,K;;UAEP,cAAc,aAAS,O;UACvB,uBAAuB,wCAAS,2CAAY,OAAZ, CAAT,C;UACvB,IAAI,gBAAiB,UAArB,C;YACI,oBAAe,gB;YACf,OAAO,I;;MAInB,OAAO,I;K;;4CA9Bf,Y;M AAuC,0D;K;;IAoC9B,6I;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,4C;MAAA,kD;MAAA,gD;MAAA,wB;MAA A,yB;MAAA,kC;K;;;yDAAA,Y;;;;kBAGyC,I;iCAFIC,C;cACI,sD;cAAhB,gB;;;;cAAA,KAAgB,yBAAhB,C;gBA AA,gB;;;cAAgB,oC;cACZ,aAAa,6BAAU,oBAAmB,uBAA nB,EAAMb,+BAA nB,QAAV,EA AuC,OAAvC,C;cAC b,gB;8BAAA,sCAAS,4BAAS,MAAT,CAAT,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;cAIJ,W;;;;K;I ANS,0F;MAAA,yD;uBAAA,iI;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IADb,wD;MACI,gBAAS,kDAAT,C;K;;;IAo ByB,qD;MACzB,0B;MACA,8B;MACA,0B;MC3TA,IAAI,ED+TQ,qBAAc,CC/TtB,CAAJ,C;QACI,cD8T2B,+CA A4C,iB;QC7TvE,MAAM,gCAAyB,OAAQ,WAAjC,C;OAFV,IAAI,EDgUQ,mBAAy,CChUpB,CAAJ,C;QACI,gB D+TyB,6CAA0C,e;QC9TnE,MAAM,gCAAyB,SAAQ,WAAjC,C;OAFV,IAAI,EDiUQ,mBAAy,iBCjUpB,CAAJ, C;QACI,gBDgUkC,0DAAuD,eAAvD,WAAmE,iB;QC/TrG,MAAM,gCAAyB,SAAQ,WAAjC,C;Q;SFDkUa,Y;MA AQ,yBAAW,iBAAX,I;K;yCAE/B,a;MAAyC,OAAI,KAAK,YAAT,GAAGB,eAAhB,GAAqC,gBAAy,eAAZ,EAAs B,oBAAa,CAAb,IAAtB,EAAsC,eAAtC,C;K;yCAC9E,a;MAAyC,OAAI,KAAK,YAAT,GAAGB,IAAhB,GAA0B,g BAAy,eAAZ,EAAsB,iBAAtB,EAakC,oBAAa,CAAb,IAAI,C;K;IAEzC,8D;MAAA,wC;MAEtB,gBAAe,2BAAS ,W;MACxB,gBAAe,C;K;0DAEf,Y;MAEI,OAAO,gBAAW,kCAAX,IAAyB,aAAS,UAAzC,C;QACI,aAAS,O;QAC T,qC;;K;2DAIR,Y;MACI,a;MACA,OAAQ,gBAAW,gCAAZ,IAAyB,aAAS,U;K;wDAG7C,Y;MACI,a;MACA,IA AI,iBAAy,gCAAhB,C;QACI,MAAM,6B;MACV,qC;MACA,OAAO,aAAS,O;K;;qCAvBxB,Y;MAA0B,mD;K;;IA gCA,uC;MAC1B,0B;MACA,oB;MC3WA,IAAI,ED+WQ,gBAAS,CC/WjB,CAAJ,C;QACI,cD8WsB,yCAAsC,YA AtC,M;QC7WtB,MAAM,gCAAyB,OAAQ,WAAjC,C;Q;0CDgXV,a;MAAyC,OAAI,KAAK,YAAT,GAAGB,eAAh B,GAAqC,gBAAy,eAAZ,EAAsB,CAAtB,EAAYB,YAAzB,C;K;0CAC9E,a;MAAyC,OAAI,KAAK,YAAT,GAAG B,IAAhB,GAA0B,iBAAa,eAAb,EA AuB,CAAvB,C;K;IAE5B,gE;MACnC,YAAW,yB;MACX,gBAAe,4BAAS,W; K;yDAExB,Y;MACI,IAAI,cAAQ,CAAZ,C;QACI,MAAM,6B;MACV,6B;MACA,OAAO,aAAS,O;K;4DAGpB,Y; MACI,OAAO,YAAO,CAAP,IAAY,aAAS,U;K;;sCAZpC,Y;MAAuC,oD;K;;IAsB3C,gD;MACI,0B;MACA,4B;K;I AEuC,0E;MAAA,oD;MACnC,gBAAe,iCAAS,W;MACxB,iBAAqB,E;MACrB,gBAAmB,I;K;oEAEnB,Y;MACI,I AAI,aAAS,UAAb,C;QACI,WAAW,aAAS,O;QACpB,IAAI,wCAAU,IAAV,CAAJ,C;UACI,iBAAy,C;UACZ,gBA AW,I;UACX,M;UAGR,iBAAy,C;K;8DAGhB,Y;MAMiB,Q;MALb,IAAI,mBAAa,EAAjB,C;QACI,iB;MACJ,IAA I,mBAAa,CAAjB,C;QACI,MAAM,6B;MACV,aCa,gF;MAGb,gBAAW,I;MACX,iBAAy,E;MACZ,OAAO,M;K; iEAGX,Y;MACI,IAAI,mBAAa,EAAjB,C;QACI,iB;MACJ,OAAO,mBAAa,C;K;;2CAIC5B,Y;MAAuC,yD;K;;IA2 Cb,uC;MAC1B,0B;MACA,oB;MC5bA,IAAI,ED+bQ,gBAAS,CC/bjB,CAAJ,C;QACI,cD8bsB,yCAAsC,YAAtC,M ;QC7btB,MAAM,gCAAyB,OAAQ,WAAjC,C;Q;0CDgcV,a;MItXO,SJsXmC,eAAQ,CAAR,I;MAAD,OAA4B,KA AK,CAAT,GAAY,yBAAZ,GAAuC,iBAAa,eAAb,EA AuB,EA AvB,C;K;0CACxG,a;MIvXO,SJuXmC,eAAQ,CAA R,I;MAAD,OAA4B,KAAK,CAAT,GAAY,yBAAZ,GAAuC,gBAAy,eAAZ,EAAsB,YAAtB,EAA6B,EAA7B,C;K; IAEjE,gE;MACnC,gBAAe,4BAAS,W;MACxB,YAAW,yB;K;2DAEX,Y;MAEI,OAAO,YAAO,CAAP,IAAY,aAA S,UAA5B,C;QACI,aAAS,O;QACT,6B;;K;yDAIR,Y;MACI,a;MACA,OAAO,aAAS,O;K;4DAGpB,Y;MACI,a;MA CA,OAAO,aAAS,U;K;;sCAnBxB,Y;MAAuC,oD;K;;IA6B3C,gD;MACI,0B;MACA,4B;K;IAGuC,0E;MAAA,oD; MACnC,gBAAe,iCAAS,W;MACxB,iBAAqB,E;MACrB,gBAAmB,I;K;gEAEnB,Y;MACI,OAAO,aAAS,UAAhB, C;QACI,WAAW,aAAS,O;QACpB,IAAI,CAAC,wCAAU,IAAV,CAAL,C;UACI,gBAAW,I;UACX,iBAAy,C;UA CZ,M;;MAGR,iBAAy,C;K;8DAGhB,Y;MAMqB,Q;MALjB,IAAI,mBAAa,EAAjB,C;QACI,a;MAEJ,IAAI,mBAA a,CAAjB,C;QACI,aCa,gF;QACb,gBAAW,I;QACX,iBAAy,C;QACZ,OAAO,M;OAEV,OAAO,aAAS,O;K;IEAG pB,Y;MACI,IAAI,mBAAa,EAAjB,C;QACI,a;MACJ,OAAO,mBAAa,CAAb,IAAkB,aAAS,U;K;;2CAIC1C,Y;MA AuC,yD;K;;IAuCN,+C;MAAC,sB;MAAiC,gC;K;0CACnE,Y;MAAuC,4BAAiB,aAAO,WAAxB,EA AoC,kBAApC ,C;K;;IAGP,+C;MAAuE,2B;MAAtE,sB;MAAiC,gC;MACIE,kBAAuB,c;K;6CAEvB,Y;MACI,OAAO,aAAO,UAA d,C;QACI,WAAW,aAAO,O;QACIB,UAAU,mBAAy,IAAZ,C;QAEV,IAAI,eAAS,WAAI,GA AJ,CAAb,C;UACI, mBAAQ,IAAR,C;UACA,M;;MAIR,W;K;;IAKgC,0D;MAAC,wC;MAAuC,kC;K;IACrC,0E;MAAA,oD;MACnC,g BAAmB,I;MACnB,iBAAqB,E;K;oEAErB,Y;MACI,gBAAe,mBAAa,EAAjB,GAAqB,+CAArB,GAA4C,2CAAa,4

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AA5B,GAAyD,I;OAGpE,OAAW,SAAK,IAAL,KAAa,GAAjB,GAAsB,mFAAtB,GAAqC,I;K;IAGhD,6C;MAUI,IAAI,+CAAJ,C;QACI,OAAW,GAAL,kBAAS,SAAK,IAAd,CAAJ,IAA0B,GAAL,iBAAQ,SAAR,CAAJ,QAA9B,GAAYd,mCAAzD,GAAoF,S;OAE/F,OAAW,SAAK,IAAL,KAAa,GAAjB,GAAsB,mCAAtB,GAAiD,S;K;IAG5D,iC;MAAAA,qC;MAKI,4B;K;oDACA,Y;MAAiC,0C;K;kDAEjC,e;MAAyD,W;K;mDACzD,8B;MAA4E,c;K;mDAC5E,mB;MAAwE,c;K;uDACxE,e;MAA8D,W;K;+CAC9D,Y;MAAsC,Q;K;+CACtC,Y;MAAyC,8B;K;;;Iab7C,6C;MAAA,4C;QAAA,2B;OAAA,qC;K;IAqB8B,wC;MAC1B,kB;MACA,wB;K;4CAGA,e;MAGQ,Q;MAFJ,UAAU,I;MACV,OAAO,IAAP,C;QACI,YAAA,GAAL,UAAJ,aAAy,GAAZ,W;UAAwB,W;SACxB,WAAW,GAAL,O;QACf,IAAI,oCAAJ,C;UACI,MAAM,I;UAEN,OAAO,iBAAK,GAAL,C;;;K;6CAKnB,8B;MACI,iBAAU,WAAK,cAAK,OAAAL,EAAc,SAAd,CAAf,EAAyC,cAAzC,C;K;iDAEJ,e;UAGW,I;MAFP,+BAAQ,GAAR,U;QAAoB,OAAO,W;OAC3B,cAAc,WAAK,kBAAS,GAAT,C;MAEf,gBAAY,WAAZ,C;QAAoB,W;WACpB,gBAAY,mCAAZ,C;QAAqC,qB;;QAC7B,2BAAgB,OAAhB,EAAyB,cAAzB,C;MAHZ,W;K;uCAOJ,Y;MAIc,IAAI,IAAJ,Q;MAHV,UAAU,I;MACV,WAAW,C;MACX,OAAO,IAAP,C;QACU,uBAAI,OAAJ,GAAL,OAAJ,gC;QAAA,mB;UAAgC,OAAO,I;SAA7C,MAAM,M;QACN,mB;;K;2CAIR,mB;MACI,+BAAI,OAAQ,IAAZ,GAAoB,OAApB,C;K;8CAEJ,mB;MAQ4B,Q;MAPxB,UAAU,O;MACV,OAAO,IAAP,C;QACI,IAAI,CAAC,gBAAS,GAAL,UAAb,CAAL,C;UAA4B,OAAO,K;QACnC,WAAW,GAAL,O;QACf,IAAI,oCAAJ,C;UACI,MAAM,I;UAEN,OAAO,gBAAS,0EAAT,C;;;K;uCAKnB,iB;MACI,gBAAS,KAAT,KAaKB,yCAA4B,KAAM,SAAN,KAAGB,aAA5C,IAAsD,KAAM,eAAy,IAAZ,CAA9E,C;K;yCAEJ,Y;MAA+B,OAAK,SAAL,WAAK,CAAL,GAA0B,SAAR,cAAQ,CAA1B,I;K;IAGZ,uD;MACX,OAAI,G3JyHoC,YAAU,C2JzHID,GAAMB,OAAQ,WAA3B,GAA6C,GAAF,UAAQ,O;K;yCAF3D,Y;MACI,aAAM,kBAAK,EAAL,EAAS,+BAAT,CAAN,GAEL,G;K;IAMO,8E;MAAA,6B;QAAyB,Q;QAAT,iBAAS,sBAAT,EAAS,8BAAT,UAAoB,O;QAAQ,W;O;K;+CAJ3D,Y;MAOsB,Q;MANIB,QAAQ,a;MACR,eAAe,gBAA+B,CAA/B,O;MACf,gBAAY,CAAZ,C;MACA,kBAAK,kBAAL,EAAW,oDAAX,C;M9KtFJ,IAAI,E8KuFM,YAAS,C9KvFf,CAAJ,C;QACI,cAdW,e;QaEX,MAAM,6BAAsB,OAAQ,WAA9B,C;O8KuFN,OAAO,+BAAW,qDAAX,C;K;IAGa,8C;MACpB,kD;MADqB,wB;K;IACrB,gD;MAAA,oD;MACI,4B;K;;;IADJ,4D;MAAA,2D;QAAA,0C;OAAA,oD;K;yDAIA,Y;MAA0C,gBAAT,a;M5Lm9YrB,Q;MADhB,kB4Ll9YmD,mC;M5Lm9YnD,wBAAGB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAwB,yBAAa,OAAb,C;;M4Ln9YT,O5Lo9Y9B,W;K;;;I6LtoZX,oE;MA4BI,MAAM,wBAAoB,sEAApB,C;K;8GA5BV,yB;MAAA,2D;MAAA,sC;QA4BI,MAAM,6BAAoB,sEAApB,C;O;KA5BV,C;IA0CoC,mC;MAAQ,4D;K;IAE5C,4C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,0C;MAAA,6C;O;MAK0C,oG;MAAqB,gF;MAAW,4E;K;;IAAhC,+D;MAAA,gC;MAAA,uD;K;;IAAqB,qD;MAAA,gC;MAAA,6C;K;;IAAW,mD;MAAA,gC;MAAA,2C;K;;IAL1E,sC;MAAA,sJ;K;;IAAA,2C;MAAA,a;aAAA,qB;UAAA,4D;aAAA,W;UAAA,kD;aAAA,S;UAAA,gD;gBAAA,qF;;K;;6ECnDA,yB;MAAA,0B;MAAA,mC;QAGsD,OAAiC,OAA3B,SAAL,GAAuB,KAAS,C;O;KAHvF,C;2EAKA,yB;MAAA,0B;MAAA,mC;QAGqD,OAAgC,OAA1B,SAAL,GAAsB,KAAS,C;O;KAHrF,C;6EAKA,yB;MAAA,0B;MAAA,mC;QAGsD,OAAiC,OAA3B,SAAL,GAAuB,KAAS,C;O;KAHvF,C;6EAKA,yB;MAAA,0B;MAAA,4B;QAGqC,OAAqB,OAAP,CAAR,SAAE,C;O;KAH1D,C;+EAMA,yB;MAAA,4B;MAAA,mC;QAGyD,OAAiC,QAA3B,SAAL,GAAuB,KAAS,C;O;KAH1F,C;6EAKA,yB;MAAA,4B;MAAA,mC;QAGwD,OAAgC,QAA1B,SAAL,GAAsB,KAAS,C;O;KAHxF,C;+EAKA,yB;MAAA,4B;MAAA,mC;QAGyD,OAAiC,QAA3B,SAAL,GAAuB,KAAS,C;O;KAH1F,C;+EAKA,yB;MAAA,4B;MAAA,4B;QAGuC,OAAqB,QAAP,CAAR,SAAE,C;O;KAH5D,C;ICpCA,qC;K;;ICAA,mB;K;;IAOA,iB;K;;IAOA,2C;K;;IAOA,wB;K;;IAQA,0B;K;;IAOA,sB;K;;IAOA,4B;K;;IAOA,6C;K;;IA+BuC,wE;MAEnC,uB;QAAA,UAAAsB,E;MACtB,qB;QAAA,8B;MACA,2B;QAAA,qE;MACA,yB;QAAA,YAAqB,E;MAJrB,sB;MACA,sB;MACA,kB;MACA,8B;MACA,0B;K;;IAGJ,iD;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,+C;MAAA,kD;O;MAKI,wG;MACA,wG;MACA,8F;K;;IAFA,iE;MAAA,qC;MAAA,yD;K;;IACA,iE;MAAA,qC;MAAA,yD;K;;IACA,4D;MAAA,qC;MAAA,oD;K;;IAPJ,2C;MAAA,6K;K;;IAAA,gD;MAAA,a;aAAA,kB;UAAA,8D;aAAA,kB;UAAA,8D;aAAA,a;UAAA,yD;gBAAA,6E;;K;;IAUA,wB;K;;ICjGA,qB;MAAA,yB;K;0CAII,Y;MAO6D,uB;K;2HAE7D,yB;MAAA,+D;MAAA,kC;MAAA,0F;MAAA,6F;MAAA,4E;QAUI,wC;QAAS,2C;O;MAVb,mEAWQ,wC;QAA6E,sBAAS,QAAT,EAAMB,QAANB,EAA6B,QAA7B,C;O;MAXrF,oG;MAAA,yC;QAUI,wDAA+B,YAA/B,C;O;KAVJ,C;uHAcA,yB;MAAA,+D;MAAA,kC;MAAA,wF;MAAA,yF;MAAA,0E;QAcI,wC;QAAS,2C;O;MAdB,kEAeQ,wC;QAAuF,6BAAS,QAAT,EAAMB,QAANB,EAA6B,QAA7B,C;O;MAf/F,kG;MAAA,yC;QAcI,sDAA+B,YAA/B,C;O;KAdJ,C;;;IA3BJ,iC;MAAA,gC;QAAA,e;OAAA,yB;K;IAGDiC,sB;MAC7B,eAAwB,I;K;4CAExB,6B;MACW,Q;MAAA,mB;MAAA,iB;QAAS,MAAM,6BAAsB

B,C;K;;;IAtCtB,sC;MAAA,qC;QAAA,oB;OAAA,8B;K;;;IA0CJ,wB;MAauC,yBAAa,IAAb,EAAmB,IAAK,IAAI,EAA5B,C;K;IAEvC,wB;MAawC,yBAAa,IAAK,QAAlB,EAA2B,IAAK,YAAI,EAAJ,CAAQ,QAAxC,C;K;IAGxC,mC;MAUI,IAAA,KAAM,UAAN,C;QAAMB,MAAM,gCAAYB,uCAAoC,KAA7D,C;WACzB,IAAA,KAAM,KAA N,GAAa,UAAb,C;QAF8C,OAEhB,0BAAQ,KAAM,MAAd,EAAqB,KAAM,KAA N,GAAa,CAAb,IAArB,C;WAC 9B,IAAA,KAAM,MAAN,GAAC,WAAd,C;QAH8C,OAGf,0BAAQ,KAAM,MAAN,GAAC,CAAd,IAAR,EAAyB, KAAM,KAA/B,IAAuC,CAAvC,I;;QAHe,OAIc,mB;K;IAGZ,oC;MAUI,IAAA,KAAM,UAAN,C;QAAMB,MAA M,gCAAYB,uCAAoC,KAA7D,C;WACzB,IAAA,KAAM,KAA N,+C;QAFiD,OAEIB,2BAAS,KAAM,MAAf,EAA s B,KAAM,KAA N,yBAAa,CAAb,EAAtB,C;WAC/B,IAAA,KAAM,MAAN,+C;QAHiD,OAGjB,2BAAS,KAAM,M AAN,8BAAC,CAAd,EAA T,EAA0B,KAAM,KAAhC,0BAAwC,CAAxC,E;;QAHiB,OAIzC,oB;K;IAOZ,yB;MAAY C,YjFrTkB,MAAO,OiFqTpB,KjFrToB,CiFqTzB,I;K;IAEzC,4C;MAEI,OAAA,SAAK,KAAK,EAAL,GAAU,QAA f,GAAyC,CAAX,CAAC,QAAD,IAAW,KAAI,E;K;IAEjD,uC;MvLtVI,IAAI,EuLsVuD,QAAQ,IvLtV/D,CAAJ,C; QACI,cuLqVvE,+B;QvLpVvE,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;IuLqVd,yC;MvLvVI,IAAI,EuLuVyD,sBA AQ,IAAR,KvLvVzD,CAAJ,C;QACI,cuLsVyE,+B;QvLrVzE,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;IuLsVd,yC;M vLxVI,IAAI,EuLwV6D,QAAQ,IvLxVrE,CAAJ,C;QACI,cuLuV6E,+B;QvLtV7E,MAAM,gCAAYB,OAAQ,WAAj C,C;Q;IuLwVd,yC;MAAYD,oCAA0B,IAA1B,qBAAiC,KAAjC,kB;K;ICrXzD,6B;MAOqC,OnMmYE,SmMnYF,m BnMmYE,C;K;ImMjYvC,sC;MASgD,6BAAS,WAAT,EAAa,KAAb,C;K;IAEhD,4C;MAUI,qBAAqB,IAArB,EAA 2B,KAA3B,C;MAEA,iBAAiB,InMqQgB,KmMrQhB,GAAiB,W;MACiC,kBAAkB,KnMoQe,KmMpQf,GAAkB,W ;MAEpC,mBAAMB,0BAAQ,UAAR,EAAoB,WAApB,IAAqC,W;MACxD,OnMsWmC,SmMtW5B,YnMsW4B,C; K;ImMnWvC,sC;MAWI,IAAA,KAAM,UAAN,C;QAAMB,MAAM,gCAAYB,uCAAoC,KAA7D,C;;QACzB,InMG kE,YmMHIE,KAAM,KnMG6E,KAAjB,EmMHRd,4BAAK,UnMG6E,KAA7B,CmMHIE,K;UAFiD,OAEIB,sBAA S,KAAM,MAAf,EnMqBsB,SmMrBA,KAAM,KnMqBI,KAAK,GAAW,CmMrBb,WnMqBa,MAAX,IAAf,CmMrB tB,C;;UAC/B,InMEkE,YmMFIE,KAAM,MnME6E,KAAjB,EmMFpD,4BAAK,UnME4E,KAA7B,CmMFIE,K;YA HiD,OnMuBI,SmMpBrB,sBnMiCsB,SmMjCb,KAAM,MnMiCiB,KAAK,GAAY,CmMjC1B,WnMiC0B,MAAZ,IA Af,CmMjCtB,EAA2B,KAAM,KAAjC,CnMoB+B,KAAK,GAAW,CmMpBN,WnMoBM,MAAX,IAAf,C;;YmMvB J,OAIzC,mB;;;K;IAGZ,8B;MAOuC,OnL0VG,Uml1VH,oBnL0VG,C;K;ImLxV1C,uC;MASmD,8BAAU,2BAAV, EAAe,KAAf,C;K;IAEnD,6C;MAUI,sBAA sB,IAAtB,EAA4B,KAA5B,C;MAEA,iBAAiB,InLwNkB,KmLxNIB,8B; MACjB,kBAAkB,KnLuNiB,KmLvNjB,8B;MAEIB,mBAAMB,2BAAS,UAAT,EAAqB,WAArB,+B;MACnB,OnL 6TsC,Uml7T/B,YnL6T+B,C;K;ImL1T1C,uC;MAWI,IAAA,KAAM,UAAN,C;QAAMB,MAAM,gCAAYB,uCAAo C,KAA7D,C;;QACzB,InL7CmE,amL6CnE,KAAM,KnL7C+E,KAAIB,EmL6CtD,6BAAM,UnL7C8E,KAA9B,Cm L6CnE,K;UAFoD,OAEpB,uBAAU,KAAM,MAAhB,EnLhCuB,UmlgCA,KAAM,KnLhCK,KAAK,KAAW,ChBs Q7C,UAAW,oBAAL,CmMtOyB,WnMsOzB,MAAK,CAAL,iBAAN,CgBtQ6C,MAAX,CAAhB,CmLgCvB,C;;UA ChC,InL9CmE,amL8CnE,KAAM,MnL9C+E,KAAIB,EmL8CrD,6BAAM,UnL9C6E,KAA9B,CmL8CnE,K;YAHo D,OnL9BG,UmlIcTb,uBnLpBuB,UmlOBB,KAAM,MnLpBkB,KAAK,UAAY,ChByP/C,UAAW,oBAAL,CmMrO c,WnMqOd,MAAK,CAAL,iBAAN,CgBzP+C,MAAZ,CAAhB,CmLoBvB,EAA4B,KAAM,KAAIC,CnLjCiC,KAA K,KAAW,ChBsQ7C,UAAW,oBAAL,CmMrOgC,WnMqOhC,MAAK,CAAL,iBAAN,CgBtQ6C,MAAX,CAAhB,C ;YmL8BH,OAI5C,oB;;;K;IAGZ,sC;MAQI,4BAAU,KhK4+FH,QgK5+FP,C;MACA,OAAO,K;K;IAGX,uC;MAKs D,OhK2iG3C,egK3iG2C,4BAAU,IAAV,ChK2iG3C,C;K;IgKziGX,4D;MAOgD,yB;QAAA,YAAiB,C;MAAG,uB; QAAA,UAAe,KAAM,K;MACrF,4BAAU,KhKy9FH,QgKz9FP,EAA+B,SAA/B,EAA0C,OAA1C,C;MACA,OAA O,K;K;IAIX,2C;MxLrHI,IAAI,EX2B8D,YmM0FD,KnM1FkB,KAAjB,EmM0FO,InM1FsB,KAA7B,CmM0FD,Ix LrH7D,CAAJ,C;QACI,cwLoH6E,+B;QxLnH7E,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;IwLoHd,4C;MxLrHI,IAAI ,EKmC+D,amLmFC,KnLnFiB,KAAIB,EmLmFS,InLnFqB,KAA9B,CmLmFC,IxLtHhE,CAAJ,C;QACI,cwLqHgF, +B;QxLpHhF,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;IyLpBc,6C;MAScxB,oC;MA/BA,iB;MANA,Y;MACA,Y;M ACA,Y;MACA,Y;MACA,Y;MACA,sB;MzLYA,IAAI,EyLLQ,CAAC,WAAC,QAAL,GAAU,QAAV,GAAe,QAaf ,GAAoB,QAARB,MAA2B,CzLKnC,CAAJ,C;QACI,cyLNwC,wD;QzLOxC,MAAM,gCAAYB,OAAQ,WAAjC,C;O GoHV,iBAAC,CAAd,UsLxHW,EtLwHX,U;QsLxHiB,c;;K;qCAGjB,Y;MAGI,QAAQ,Q;MACR,IAAI,IAAO,MAA O,C;MACIB,WAAI,Q;MACJ,WAAI,Q;MACJ,WAAI,Q;MACJ,SAAS,Q;MACT,WAAI,E;MACJ,IAAK,IAAO,KA AM,CAAd,GAAsB,EAAtB,GAA8B,MAAO,C;MACzC,WAAI,C;MACJ,gCAAU,MAAV,I;MACA,OAAO,IAAI,a AAJ,I;K;8CAGX,oB;MACI,OAAU,cAAV,cAAU,EAAC,QAAD,C;K;IAEd,kC;MAAA,sC;MACI,4B;K;;;IADJ,8C;

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B,EAAsB,CAAtB,EAA+B,CAAN,KAAzB,EA AUc,SAAU,EAAX,GAAoB,UAAW,CAArE,C;MADR,Y;K;ICbiD,
8C;MACjD,4B;MACA,0C;K;oEADA,Y;MAAA,2B;K;2EACA,Y;MAAA,kC;K;uCAGA,iB;MACI,OAAO,0CAA
C,kBAAa,KAAM,UAA nB,KAC/B,mBAAS,KAAM,MAAf,KA AwB,0BAAgB,KAAM,aAAtB,CADO,CAAhC,C;
K;yCAIX,Y;MACI,OAAW,cAAJ,GAAe,EA Af,GAAuB,MAAW,SAAN,UAA M,CAAX,QAAqC,SAAb,iBAAa,CA
ArC,I;K;yCAGIC,Y;MAAkC,OAAE,UAA F,qBAAU,iB;K;;IAGhD,kC;MAM6E,2BAAgB,SAAhB,EAAsB,IAAtB,
C;K;;;0DAYzE,iB;MAA2C,qCAAiB,UAAjB,EA AwB,KAAxB,KAAkC,8BAAiB,KAAjB,EA AwB,iBAAxB,C;K;i
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C;K;2CAIX,Y;MACI,OAAW,cAAJ,GAAe,EA Af,GAAuB,MAAY,SAAP,aAAO,CAAZ,QAAuC,SAAd,oBAAC,C
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B,C;K;IAQvD,+C;MAI1B,gBAAqB,K;MACrB,uBAA4B,Y;K;yFACF,Y;MAAQ,oB;K;gGACD,Y;MAAQ,2B;K;0
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,SAAhB,IAA0B,yBAAiB,KAAM,gBADpB,CAA9B,C;K;0CAIX,Y;MACI,OAAW,cAAJ,GAAe,EA Af,GAAuB,M
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IAGjD,oC;MAOkF,4BAAiB,SAAjB,EA AUb,IAAvB,C;K;oFAGIF,8B;MAQI,0BAAmB,2BAAS,OAAT,C;K;IAGv
B,+C;MACI,IAAI,CAAC,UAA L,C;QAAiB,MAAM,gCAAyB,iCAA8B,IAA9B,iBAAzB,C;K;IC5I3B,gC;MACw,
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;;;;;ICvBhB,yC;MA2B9B,uC;MA1BA,wB;MAIA,gB;M5LQA,IAAI,E4LDS,iBAA Y,IAAb,MAAUb,iBAAvB,C5L
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F,SAAL,SAAK,C;WAC5B,6C;QAH8B,OAGd,iBAAK,SAAL,C;WACHB,8C;QAJ8B,OAIb,kBAAM,SAAN,C;;Q
AJa,mC;K;IAOIC,qC;MAAA,yC;MACI,YAGqC,oBAAgB,IAAhB,EAAsB,IAAtB,C;K;iGAQJ,Y;MAAQ,gB;K;4D
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A/B,C;K;;;IArCR,iD;MAAA,gD;QAAA,+B;OAAA,yC;K;;2CArCJ,Y;MAWI,oB;K;2CAXJ,Y;MAeI,gB;K;6CAfJ,0
B;MAAA,2BAWI,8CAXJ,EAeI,kCAfJ,C;K;yCAA A,Y;MAAA,c;MAWI,yD;MAIA,qD;MAfJ,a;K;uCAA A,iB;MA
AA,4IAWI,4CAXJ,IAeI,oCAfJ,I;K;ICLA,kC;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,gC;MAAA,mC;O;MAYI,4
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MAAA,sB;MAAA,6B;K;;IAtBJ,4B;MAAA,mG;K;;IAAA,iC;MAAA,a;aAAA,W;UAAA,wC;aAAA,I;UAAA,iC;a
AAA,K;UAAA,kC;gBAAA,6D;;K;;6ECAA,yB;MAAA,4F;MAAA,2B;QASI,MAAM,mCAA8B,0EAA9B,C;O;KA
TV,C;ICkCA,+D;MAAw,Q;MAAP,OAAO,8CAA O,KAAP,EAAC,UAA d,EAA0B,QAA1B,oC;K;IAGX,kC;MAIiB
,Q;MAAb,wBAAa,KAAb,gB;QAAa,WAAA,KAAb,M;QACI,yBAAO,IAAP,C;;MACJ,OAAO,S;K;mFAGX,qB;M
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B;MAGmE,OAAA,yBAAO,KAAP,CAVX,gBAAO,EAAP,C;K;IAxD,wD;MAEQ,sB;QAAqB,yBAAO,UAAU,O
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ArB,GAA+B,I;K;IWhE1C,8C;MAGBI,WAAW,KAAX,C;MAC4B,kBAArB,QAAQ,SAAR,EAAC,KAAd,C;MAAP
,OX+CqB,WW/CgB,IAAM,CX+CpC,GAAqB,WAArB,GAA+B,I;K;IW5C1C,gC;MAWI,IAAY,CAAR,8BAAW,C
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EH,IAAI,YAAO,EAAX,C;QACH,mBAAM,SAAN,C;;QAEA,0BAAM,SAAN,IAAa,EAAb,C;;MAHJ,W;K;IAuFJ,8B;MAWSc,+B;K;0EAEtC,4B;MAM8D,OAAK,oBAAL,SAAK,CAAL,GAaKb,K;K;IAEHf,gD;MAQoC,0B;QAAA,aAAsB,K;MACtD,IAAI,cAAQ,KAAZ,C;QAAMb,OAAO,I;MAC1B,IAAI,CAAC,UAAAL,C;QAAiB,OAAO,K;MAExB,gBAaQb,cAAL,SAAK,C;MACrB,iBAAuB,cAAN,KAAM,C;MAEHb,yBAaA,U;MAAb,U;QAA2B,OfRMyB,oBEqMzB,SFrMyB,CAAY,cAfrB,YAAAY,CAAZ,CEoNhB,KFrMyB,oBEqMI,UFrMJ,CAAY,cAfrB,YAAAY,CAAZ,C;OEOID,W;K;IAGJ,gC;MAGyC,QAAQ,cAAA,sCAAK,cAAL,EAAoB,sCAAK,cAAzB,CAAR,6B;K;IkL3OzC,6C;Mac6B,4B;QAAA,eAAuB,G;MACHd,wCAAsB,EAAtB,EAA0B,YAA1B,C;K;IAEJ,mE;MAKwC,yB;QAAA,YAAoB,E;MAAI,4B;QAAA,eAAuB,G;MhMGnF,IAAI,CmBwR+C,CAAC,Q6K1R5C,Y7K0R4C,CnBxRpD,C;QACI,cgMHiC,wC;QhMIjC,MAAM,gCAAYB,OAAQ,WAAjC,C;OgMHV,cAAY,gB;MAEC,yBAAS,mBAAS,YAAA,SAAU,OAAV,EAAMb,OAAM,KAAzB,CAAT,I;MAAT,wBAAiD,kBAaKb,SAAIB,C;MA0E9D,gBAAgB,iBA1ET,OA0ES,C;M1Lg7CT,kBAaOgB,gB;MAoSd,gB;MADb,YAAAY,C;MACC,00L9xDN,01L8xDM,W;kBAAb,OAAa,cAAb,C;QAAA,sB;QA1RsB,U;QAAA,cA0RT,oBAAMb,cAAnB,EAAMb,sBAAnB,U;Q0L/sDIB,kB;;YAHA,CAAC,YAAS,CAAT,IAAc,qBAaf,KAA4C,Q1LktDG,I0LitDH,C;UAC5C,a;;UAEA,4B;UA9E+B,uB;;Y9KgHzB,kC;YAAA,wBZ6qDyC,IY7qDzC,C;YAAA,qB;YAAA,oB;YAAA,oB;YAAAd,gE;cACI,I8KjHkD,CAAI,aAAH,U9KiHrC,YZ4qDqC,IY5qDrC,YAAK,OAAL,E8KjHqC,CAAG,C9KiHtD,C;gBACI,sBAAO,O;gBAAP,wB;;YAGR,sBAAO,E;;;U8KrHH,iD;UAGI,gCAA2B,EAA3B,C;YAHJ,2BAGqC,I;IBACjC,IAAK,a1LyxD0C,I0LzxD1C,gBAAYB,uBAAZB,CAAL,C;YAJJ,2B1L6xDmD,IOjmDsB,WmLxLI,0BAAuC,mBAAvC,InLwLJ,C;;YmL5LzE,2BAKY,I;;UAYER,iE7LJD,yB6LIC,4B1L+sD+C,I;;QA1RpB,8B;UAA6C,6B;;M0LpgDhF,OAIkFK,S1Lo7CE,W0Lp7CF,EAAO,mBAAc,kBAAd,CAAP,EAA0C,IAA1C,CACA,W;K;IAvET,+B;MAeyC,gCAAc,EAAd,C;K;IAEzC,6C;MAGgC,yB;QAAA,YAAoB,E;MAM3C,Q;MALL,cAAY,gB;M1LurBL,kBAAS,gB;MA2FA,U;MAAA,S0LhxBM,O1LgxBN,W;MAAhB,OAAgB,gBAAhB,C;QAAgB,2B;QAAM,Ia3hB6B,CAAC,Qb2hBhB,Oa3hBgB,Cb2hB9B,C;UAAwB,WAAAY,WAAI,OAAJ,C;;M0L9wBrD,kB1L+wBE,W;MAMrBA,oBAAM,iBAaA,qCAAwB,EAAXB,CAAb,C;MAuEA,U;MAAA,+B;MAAb,OAAa,gBAAb,C;QAAA,wB;QACT,aAAY,uBAAc,IAAd,E;;M0L5gDhB,sBAAsB,CAGjB,oB1L0gDE,a0L1gDF,CAHiB,mBAGF,C;MAEP,yBAAS,mBAAS,YAAA,SAAU,OAAV,EAAMb,OAAM,KAAzB,CAAT,I;MAAT,wBAAiD,kBAaKb,SAAIB,C;MAMc9D,gBAAgB,iBAnCT,OAmCS,C;M1Lg7CT,oBAaOgB,gB;MAoSd,kB;MADb,YAAAY,C;MACC,S0LvvdN,01LuvDM,W;MAAb,OAAa,gBAAb,C;QAAA,0B;QA1RsB,U;QAAA,cA0RT,oBAAMb,cAAnB,EAAMb,sBAAnB,U;Q0L/sDIB,kB;Q1Lq7C2B,c0Lx7C3B,CAAC,YAAS,CAAT,IAAc,qBAaf,KAA4C,Q1LktDG,M0LitDH,C1Lw7CjB,G0Lv7C3B,I1Lu7C2B,G0Lr7C3B,oBAxCmG,Q1LuvDpD,M0LvvdDoD,kBAwCnG,Y7LJD,yB6LIC,4B1L+sD+C,MA1RpB,U;UAA6C,+B;;M0L79ChF,OA0CK,S1Lo7CE,a0Lp7CF,EAAO,mBAAc,kBAAd,CAAP,EAA0C,IAA1C,CACA,W;K;IAjCI,8C;MAAA,qB;QAEg,IAAG,QAAH,EAAG,CAAH,C;UAEQ,IAAA,EAAG,OAAH,GAAY,cAAO,OAAAnB,C;YAHZ,OAGyC,c;;YAHZC,OAIoB,E;;UAJpB,OAoy,iBAAS,E;O;K;IAfjC,0C;MAKgC,sB;QAAA,SAAiB,M;MAC7C,OAYK,eAXA,OADL,uBACk,EAAl,4BAAJ,CAWA,EAAa,IAAb,C;K;IAET,gC;MAAwC,uB;;Q9KMDtB,gC;QAAA,gC;QAAA,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,I8KpD+C,CAAI,aAAH,U9KoDIC,iCAAK,KAAL,E8KpDkC,CAAG,C9KoDnD,C;YACI,sBAAO,K;YAAP,wB;;QAGR,sBAAO,E;;Mf3CA,4B;M6Lb6B,OAA8C,OAAM,EAAV,GAAC,gBAAd,GA0B,E;K;IAGpF,wC;MAAKb,W;K;IAC9B,oD;MAAA,uB;QAAkB,wBAAS,I;O;K;IAFvC,mC;MACI,IAAA,M7KkMgD,YAAU,C6KIM1D,C;QAD4C,OACxB,wB;;QADwB,OAEPc,kC;K;mBAGZ,yB;M1L86CA,+D;MAoSA,wE;M0LitDA,sF;QAKI,gBAAgB,2B;Q1Lg7CT,kBAaOgB,gB;QAoSd,gB;QADb,YAAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UA1RsB,U;UAAA,cA0RT,oBAAMb,cAAnB,EAAMb,sBAAnB,U;U0L/sDIB,kB;U1Lq7C2B,c0Lx7C3B,CAAC,YAAS,CAAT,IAAc,qBAaf,KAA4C,Q1LktDG,I0LitDH,C1Lw7CjB,G0Lv7C3B,I1Lu7C2B,G0Lr7C3B,sC1L+sD+C,I0L/sD/C,a7LJD,yB6LIC,4B1L+sD+C,IA1RpB,U;YAA6C,6B;;Q0Lz7ChF,OAMK,S1Lo7CE,W0Lp7CF,EAAO,mBAAc,kBAAd,CAAP,EAA0C,IAA1C,CACA,W;O;KAbT,C;6EvEkSA,0B;MAGmE,OAAA,SAAK,gBAAO,GAAP,C;K;qFAExE,yB;MAAA,yD;MAAA,gC;QAO2B,gBAAhB,oB;QAAsB,atHrU7B,W;QsHqUA,OtHpUO,SsHoUqC,W;O;KAPhD,C;uFAUA,yB;MAAA,iE;MAAA,0C;QAQmC,gBAAXB,mBAAC,QAAd,C;QA8B,atHhVrC,W;QsHgVA,OtH/uo,SsH+U6C,W;O;KARxD,C;IAWA,oC;MAIiB,Q;MAAb,wBAaA,KAAb,gB;QAAA,WAAA,KAAb,M;QACI,yBAAO,IAAP,C;;MACJ,OAAO,S;K;IAGX,oC;MAIiB,Q;MAAb,wBAaA,KAAb,gB;QAAA,WAAA,KAAb,M;QACI,yBAAO,IAAP,C;;MACJ,OAAO,S;K;qFAGX,qB;MAG8D,gCAAO,EAAP,C;K;qFAE9D,4B;MAGkF,OAAA,yBAAO,KAAP,CALpB,gBAAO,EAAP,C;K;qFAO9D,4B;MAG4E,OAAA,yBAAO,KA

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,uC;MACI,2BAIuC,G;MAEvC,eAIoC,uCAA0B,M;K;;;IAXIE,+C;MAAA,8C;QAAA,6B;OAAA,uC;K;;IA9CA,iD;
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;K;4FCxDI,yB;MAAA,2D;MAAA,4B;QAAQ,MAAM,6BAAoB,6BAApB,C;O;KAAd,C;;;ICSJ,uB;MAG2C,+BA
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,C;;UAEN,wBAnBkB,K;;QAAtB,4B;O;KARJ,C;wFAWA,yB;MAAA,kF;MAAA,qC;QAYI,IAAI,aAAJ,C;UACI,c
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,4B;QAUW,Q;QADP,yB;QACA,OAAO,gF;O;KAVX,C;+EAaA,yB;MAAA,gB;MAAA,8B;MAAA,uC;QAegB,U
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AAK, KAAK, GAAM, KAAM, KAAZ, IAAf, C; O; KAFtD, C; 4FAGA, yB; MAkPA, kBAS6D, sB; MAT7D, +B; MAIPA, wB; QAEwD, OgBAA, eAAW, ChByP9B, eAAW, oBAAL, SAAK, CAAL, iBAAN, CgBzP8B, MAAK, UhBAK, KgBAO, KAAZ, CAAhB, C; O; KhBFxD, C; 4FAIA, yB; MDgNA, 6B; MChNA, wB; QAEuD, OAMD, cAAe, YAAV, IAAK, KAAK, EAAY, CDiN9C, cCvN+B, KDUNrB, KAAL, GAAiB, GAAtB, CCjN8C, MAAZ, CAaf, C; O; KARtD, C; 4FAGA, yB; MC8MA, 6B; MD9MA, wB; QAEwD, OAGF, cAAe, YAAV, IAAK, KAAK, EAAY, CCKn9C, cDrNgC, KCqNtB, KAAL, GAAiB, KAAtB, CDIN8C, MAAZ, CAaf, C; O; KALtD, C; 4FAGA, yB; MAAA, 6B; MAAA, wB; QAEsD, qBA Ae, YAAV, IAAK, KAAK, EAAM, KAAM, KAAZ, CAaf, C; O; KAFtD, C; 4FAGA, yB; MAqOA, kBAS6D, sB; MAT7D, +B; MArOA, wB; QAEwD, OgBAA, eAAW, ChB409B, eAAW, oBAAL, SAAK, CAAL, iBAAN, CgB508B, MAAK, UhBAK, KgBAO, KAAZ, CAAhB, C; O; KhBFxD, C; wFAIA, yB; MDmMA, 6B; MC7LA, 4C; MANA, wB; QAEqD, OAMD, WAAW, IAAX, EDOMjB, cC1M2B, KD0MjB, KAAL, GAAiB, GAAtB, CCpMiB, C; O; KARpD, C; wFAGA, yB; MCiMA, 6B; MD9LA, 4C; MAHA, wB; QAEsD, OAGF, WAAW, IAAX, ECqMjB, cDxM4B, KCwMIB, KAAL, GAAiB, KAAtB, CDrMiB, C; O; KALpD, C; wFAGA, yB; MAAA, 4C; MAAA, wB; QAEoD, kBAAW, IAAX, EAaiB, KAAjB, C; O; KAFpD, C; wFAGA, yB; MAwNA, kBAS6D, sB; MAT7D, +B; MgBxNA, 8C; MhBAA, wB; QAEsD, OgBAA, YhB+NjB, eAAW, oBAAL, SAAK, CAAL, iBAAN, CgB/NiB, EhBAmB, KgBAnB, C; O; KhBFtD, C; wFAIA, yB; MDsLA, 6B; MCxKA, kD; MAdA, wB; QAMqD, OAcD, cAAc, IAAd, ED2KjB, cCzL2B, KDyLjB, KAAL, GAAiB, GAAtB, CC3KiB, C; O; KApBpD, C; wFAOA, yB; MCgLA, 6B; MDzKA, kD; MAPA, wB; QAMsD, OAO, cAAc, IAAd, EC4KjB, cDnL4B, KCmLiB, KAAL, GAAiB, KAAtB, CD5KiB, C; O; KAbpD, C; wFAOA, yB; MAAA, kD; MAAA, wB; QAMoD, qBAAc, IAAd, EAAoB, KAApB, C; O; KANpD, C; wFAOA, yB; MA+LA, kBAS6D, sB; MAT7D, +B; MgB/LA, oD; MhBAA, wB; QAMsD, OgBAA, ehBkMjB, eAAW, oBAAL, SAAK, CAAL, iBAAN, CgBIMiB, EhBAmB, KgBAnB, C; O; KhBNtD, C; kGAQA, yB; MDyJA, 6B; MC7LA, 4C; MAoCA, wB; QAMiD, OAxCG, WAAW, IAAX, EDOMjB, cC5J4B, KD4JIB, KAAL, GAAiB, GAAtB, C CpMiB, C; O; KAKpD, C; kGAOA, yB; MCmJA, 6B; MD9LA, 4C; MA2CA, wB; QAMkD, OA/CE, WAAW, IAAX, ECqMjB, cDtJ6B, KCsJnB, KAAL, GAAiB, KAAtB, CDrMiB, C; O; KAyCpD, C; kGAOA, yB; MAIDA, 4C; MAkDA, wB; QAMgD, OAtDI, WAAW, IAAX, EAsDA, KatDA, C; O; KAgDpD, C; kGAOA, yB; MAkKA, kBAS6D, sB; MAT7D, +B; MgBxNA, 8C; MhBsDA, wB; QAMkD, OgB1DI, YhB+NjB, eAAW, oBAAL, SAAK, CAAL, iBAAN, CgB/NiB, EhB0DoB, KgB1DpB, C; O; KhBoDtD, C; wFAQA, yB; MD4HA, 6B; MCxKA, kD; MDuOJ, 0B; MAAA, +B; MC3LI, wB; QAQ6C, OD8LR, eAAW, OC5OI, cAAc, IAAd, ED2KjB, cC7HmB, KD6HT, KAAL, GAAiB, GAAtB, CC3KiB, CAkLf, KD0DW, C AAX, C; O; KCTMrC, C; wFASA, yB; MCoHA, 6B; MDzKA, kD; MCwOJ, 4B; MAAA, iC; MDnLI, wB; QAQ+C, OCsLR, gBAAY, QD7OC, cAAc, IAAd, EC4KjB, cDrHqB, KCqHX, KAAL, GAAiB, KAAtB, CD5KiB, CA4Lb, KCiDY, CAAZ, C; O; KD9LvC, C; wFASA, yB; MA9DA, kD; MA8DA, wB; QAQ2C, OAhES, cAAc, IAAd, EAglEL, KAHEK, C; O; KAwDpD, C; wFASA, yB; MA+HA, kBAS6D, sB; MAT7D, +B; MgB/LA, oD; MhBgEA, wB; QAQ6C, OgBIES, ehBkMjB, eAAW, oBAAL, SAAK, CAAL, iBAAN, CgBIMiB, EhBkEU, KgBIEV, C; O; KhB0DtD, C; wEAUA, yB; MAAA, 6B; MAAA, mB; QAMyC, qBAAK, SAAK, QAAV, C; O; KANzC, C; wEAQA, yB; MAAA, 6B; MAAA, mB; QAMyC, qBAAK, SAAK, QAAV, C; O; KANzC, C; gGAQA, yB; MAAA, 8C; MAAA, wB; QAE6D, 0BAAU, IAAV, EAAGb, KAAhB, C; O; KAF7D, C; wFAIA, yB; MAAA, 6B; MAAA, 2B; QAOmD, qBAAK, aAAS, QAAAd, C; O; KAPnD, C; wFASA, yB; MAAA, 6B; MAAA, 2B; QAOmD, qBAAK, cAAU, QAAf, C; O; KAPnD, C; wFASA, yB; MAAA, 6B; MAAA, wB; QAEiD, qBAAK, IAAK, KAAL, GAAc, KAAM, KAAzB, C; O; KAFjD, C; sFAGA, yB; MAAA, 6B; MAAA, wB; QAEgD, qBAAK, IAAK, KAAL, GA Aa, KAAM, KAAxB, C; O; KAFhD, C; wFAGA, yB; MAAA, 6B; MAAA, wB; QAEiD, qBAAK, IAAK, KAAL, GAAc, KAAM, KAAzB, C; O; KAFjD, C; wEAGA, yB; MAAA, 6B; MAAA, mB; QAEgC, qBAAU, CAAL, SAAL, C; O; KAFhC, C; 8 EAIA, yB; MAAA, 0B; MAAA, mB; QAUmC, OAAK, OAAL, SAAK, C; O; KAVxC, C; gFAWA, yB; MAAA, 4B; MAAA, mB; QAUqC, OAAK, QAAL, SAAK, C; O; KAV1C, C; 4EAWA, Y; MASiC, gB; K; 8EACjC, yB; MAAA, kBASqD, sB; MAT7D, mB; QASmC, OAAK, oBAAL, SAAK, CAAL, iB; O; KATnC, C; gFAWA, yB; MDwDJ, 0B; MAAA, +B; MCxDI, mB; QASqC, OD0DA, eAAW, OC1DX, SD0DW, CAAX, C; O; KCnErC, C; kFAUA, yB; MC+CJ, 4B; MAAA, iC; MD/CI, mB; QASuC, OCiDA, gBAAY, QDjDZ, SCiDY, CAAZ, C; O; KD1DvC, C; 8EAUA, Y; MAEmC, W; K; gFACnC, yB; MAAA, kBAS6D, sB; MAT7D, +B; MAAA, mB; QASqC, sBAAW, oBAAL, SAAK, CAAL, iBAAN, C; O; KATrC, C; gFAWA, yB; MASA, gD; MATA, mB; QAQqC, OAOE, aAAa, SAAb, C; O; KAFvC, C; kFASA, yB; MAAA, gD; MAAA, mB; QAMuC, oBAAa, SAAb, C; O; KANvC, C; 8BAQA, Y; MAAYC, OArDD, oBAAL, SAAK, CAAL, iBAqDe, W; K; ;;;; 8BAhWtD, Y; MAAA, c; MAG2D, qD; MAH3D, a; K; 4BAAA, iB; MAAA, 2IAG2D, oCAH3D, G; K; sEAoWA, yB; MAAA, 6B; MAAA, 4B; QAWwC, qBAAU, SAAV, C; O; KAXxC, C; wEAYA, yB; MAAA, 6B; MAAA, 4B; QAWyC, qBAAU, SAAV, C; O; KAX

zC,C;wEAYA,yB;MAAA,6B;MAAA,4B;QAUuC,qBAAK,SAAL,C;O;KAVvC,C;wEAWA,yB;MAAA,6B;MAAA,4B;QAWwC,qBAAK,SAAK,QAAY,C;O;KAXxC,C;uEAaA,yB;MAAA,gD;MAAA,4B;QASyC,oBAaKb,SAAlB,C;O;KATzC,C;wEAUA,yB;MAAA,gD;MAAA,4B;QAS0C,oBAAa,SAAb,C;O;KAT1C,C;Igc3ZA,4B;MACqB,sB;K;sCAKjB,iB;MAM4C,OhCuXT,SgCvXS,aAAQ,KAAR,ChCuXT,C;K;sCgCrXnC,wB;MAOI,aAAQ,KAAR,IAAiB,KhCyQY,K;K;iFgCrQH,Y;MAAQ,OAAA,YAAQ,O;K;mCAE9C,Y;MAC6E,8BAAS,YAAT,C;K;IAGvD,mC;MAAgC,uB;MAA/B,oB;MACnB,eAAoB,C;K;2CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;4CACvC,Y;MAAwD,Q;MAA9B,IAAI,eAAQ,YAAM,OAAIB,C;QAAA,OhCiWK,SgCjWmB,aAAM,mBAAN,EAAM,2BAAN,OhCiWnB,C;;QgCjWgD,MAAM,2BAAuB,YAAM,WAA7B,C;K;;yCAGzF,mB;MAIS,Q;MAAL,IAAI,eAAC,0EAAD,OAAJ,C;QAAgC,OAAO,K;MAEvC,OAAe,WAAR,YAAQ,EAAS,OhCmPK,KgCnPd,C;K;8CAGnB,oB;MACY,Q;MAA2B,gBAA3B,gE;MAA2B,c;;Qf0nDvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAP,e;SACrB,6B;QAAhB,OAAgB,gBAAhB,C;UAAgB,2B;Ue1nD6B,2Bf0nDR,Oe1nDQ,O;UAAA,W;YAAsB,oBAAR,YAAQ,Ef0nD9B,OjB34CJ,KgC/OkC,C;Wf0nD7C,IAAI,OAAJ,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;Me3nDH,iB;K;kCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;;IA/CvD,qC;MAAA,mD;MACgC,sBAAK,eAAS,IAAT,CAAL,C;MADhC,Y;K;;;mCAPJ,Y;MAAA,OAKqB,oDALrB,M;K;mCAA,Y;MAAA,c;MAKqB,wD;MAlrB,a;K;iCAA,iB;MAAA,2IAKqB,0CALrB,G;K;8EAyDA,yB;MAAA,uC;MAWoC,wC;QAAA,wB;UAAW,OAAA,aAAK,KAAL,ChC8NV,K;S;O;MgCzOrC,6B;QAWI,OAAO,mBAAU,gCAAS,IAAT,GAAe,sBAAf,CAAV,C;O;KAXX,C;gFAcA,oB;MAGkE,e;K;I4LnE5C,wC;MASBIB,iC;MATBsD,2BAAgB,KAAhB,EAAuB,YAAvB,EAqC,CAArC,C;K;kFAC7B,Y;MAAQ,iB;K;yFACD,Y;MAAQ,gB;K;2CAExC,iB;MAA8C,W5NwCoB,Y4NxCPB,U5NwCqC,KAAjB,E4NxCX,K5NwCwC,KAA7B,C4NxCPB,K;MAAA,S;QAAkB,O5NwCE,Y4NxCF,K5NwCmB,KAAjB,E4NxCO,S5NwCsB,KAA7B,C4NxCF,K;OAAIB,W;K;kCAE9C,Y;MAKkC,O5NiCgC,Y4NjChC,U5NiCiD,KAAjB,E4NjCxB,S5NiCqD,KAA7B,C4NjChC,I;K;iCAEIC,iB;MAEY,UAAwB,M;MADhC,2CAAuB,kBAAa,KAAM,UAAAnB,KACf,2CAAS,KAAM,MAAf,cAAwB,6CAAQ,KAAM,KAAd,QAAxB,CADe,CAAxB,C;K;mCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,MAAK,U5NyQA,K4NzQL,QAAqB,S5NyQhB,K4NzQL,I;K;mCAE5B,Y;MAAkC,OAAE,UAAF,qBAAU,S;K;IAE5C,+B;MAAA,mC;MACI,aAC8B,cAAU,4BAAK,UAAf,EAA0B,4BAAK,UAA/B,C;K;;IAFIC,2C;MAAA,0C;QAAA,yB;OAAA,mC;K;;IAYJ,oD;MA4CI,uC;MATCI,IAAI,SAAQ,CAAZ,C;QAAuB,MAAA,gCAAYB,wBAAZB,C;MACpC,IAAI,SAAQ,WAAZ,C;QAA2B,MAAA,gCAAYB,wEAzB,C;MAG5C,aAGyB,K;MAEzB,YAGwB,4BAA0B,KAA1B,EAAiC,YAAjC,EAA+C,IAA/C,C;MAExB,YAGuB,I;K;yCAEvB,Y;MAAgD,mCAAwB,UAAxB,EAA+B,SAA/B,EAAqC,SAArC,C;K;wCAEhD,Y;MAMqC,OAAI,YAAO,CAAX,G5NvB6B,Y4NuBf,U5NvBgC,KAAjB,E4NuBP,S5NvBoC,KAA7B,C4NuBf,IAAd,G5NvB6B,Y4NuBG,U5NvBc,KAAjB,E4NuBW,S5NvBkB,KAA7B,C4NuBG,I;K;uCAErE,iB;MAEY,UAAwB,M;MADhC,iDAA6B,kBAAa,KAAM,UAAAnB,KACrB,2CAAS,KAAM,MAAf,cAAwB,6CAAQ,KAAM,KAAd,QAAxB,KAA8C,cAAQ,KAAM,KADvC,CAA7B,C;K;yCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,OAAM,MAAK,U5NiNN,K4NjNC,QAAqB,S5NiNtB,K4NjNC,IAAN,SAAGD,SAAhD,I;K;yCAE5B,Y;MAAkC,OAAI,YAAO,CAAX,GAAgB,UAAF,qBAAU,SAAV,cAAqB,SAAnC,GAAgD,UAAF,2BAAgB,SAAhB,eAA4B,CAAC,SAAD,IAA5B,C;K;IAEHf,qC;MAAA,yC;K;kEACI,sC;MAQ2F,2BAAgB,UAAhB,EAA4B,QAA5B,EAA5C,IAAtC,C;K;;IAT/F,iD;MAAA,gD;QAAA,+B;OAAA,yC;K;;IAoBiC,oD;MAAuC,uB;MACxE,sBAA2B,I;MAC3B,iBAAmC,OAAO,CAA1C,G5NxDe,Y4NwDrB,K5NxDsC,KAAjB,E4NwDZ,I5NxDyC,KAA7B,C4NwDrB,KAA7C,G5NxDe,Y4NwDF,K5NxDmB,KAAjB,E4NwDO,I5NxDsB,KAA7B,C4NwDF,K;MACHe,c5N2RmC,S4N3RhB,I5N2RgB,C;M4N1RnC,cAAuB,cAAJ,GAAa,KAAb,GAAwB,mB;K;gDAE3C,Y;MAAkC,qB;K;iDAEIC,Y;MACI,YAAY,W;MACZ,IAAI,6BAAS,mBAAT,QAAJ,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAA,6B;QAC3B,iBAAU,K;;QAEV,c5NID6C,S4NkD7C,W5NIDuD,KAAK,G4NkDpD,W5NID+D,KAAX,IAAf,C;;M4NoDjD,OAAO,K;K;;IC3Hf,yB;K;mCAII,Y;MAA4B,uB;K;;IAMhC,0B;K;oCAII,Y;MAA4B,wB;K;;IAMhC,wB;K;kCAII,Y;MAA4B,sB;K;;IAMhC,yB;K;mCAII,Y;MAA4B,uB;K;;I7M5BP,qB;MAErB,6B;MAFwD,gB;K;IAExD,2B;MAAA,+B;MACI,iBAGoC,a;MAEpC,iBAGoC,c;MAEpC,kBAGmC,C;MAEnC,iBAGkC,E;K;;IANtC,uC;MAAA,sC;QAAA,qB;OAAA,+B;K;sGAsBA,yB;MjBqRA,WAS6D,wB;MAT7D,+B;MiB7PA,gD;MAxBA,wB;QAM0D,OAYBS,aAAa,IAAK,KAAIB,EAA8B,CjB+P5D,eAAW,oBiBxRyB,KjBwR9B,KAAK,CAAL,UAAAN,CiB/P4D,MAA9B,C;O;KA/BnE,C;sGAQA,yB;Mf8QA,aAS6D,0B;MAT7D,+B;Me9PA,gD;MAhBA,wB;QAM2D,OAIbQ,aAAa,IAAK,KAAIB,EAA8B,CfgQ5D,eAAW,oBejR0B,KfiR/B,KAAK,CAAL,YAAN,CehQ4D,MAA9B,C;O;KAvBnE,C;sGAQA,yB;MhByRA,kBAS6D,sB;

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;MiBpPA,wB;QAEuD,OASA,eAAM,IAAK,KAAK,KAAW,CjBkP7C,eAAW,oBiB3PiB,KjB2PtB,KAAK,CAAL,
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,OAMD,eAAM,IAAK,KAAK,KAAW,CfmP7C,eAAW,oBezPkB,KfyPvB,KAAK,CAAL,YAAN,CenP6C,MAAX,
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AGA,yB;MfqOA,aAS6D,0B;MAT7D,+B;MerOA,wB;QAEyD,OAMD,eAAM,IAAK,KAAK,UAAAY,CfsO/C,eAA
W,oBe5OoB,Kf4OzB,KAAK,CAAL,YAAN,CetO+C,MAAZ,CAAhB,C;O;KARxD,C;8FAGA,yB;MhBqPA,kBAS
6D,sB;MAT7D,+B;MgBrPA,wB;QAEuD,OAGC,eAAM,IAAK,KAAK,UAAAY,ChByP/C,eAAW,oBgB5PkB,KhB4
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D,+B;MiB1NA,wB;QAEwD,OASA,eAAM,IAAK,KAAK,UAAAY,CjBwN/C,eAAW,oBiBjOmB,KjBiOxB,KAAK,
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AAhB,C;O;KALxD,C;8FAGA,yB;MAAA,+B;MAAA,wB;QAEwD,sBAAM,IAAK,KAAK,UAAAM,KAAM,KAAZ
,CAAhB,C;O;KAFxD,C;0FAIA,yB;MjB6MA,WAS6D,wB;MAT7D,+B;MiBpMA,8C;MATA,wB;QAEsD,OASA,
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KfkNrB,KAAK,CAAL,YAAN,Ce5MiB,C;O;KARtD,C;0FAGA,yB;MhB2NA,kBAS6D,sB;MAT7D,+B;MgBxNA,
8C;MAHA,wB;QAEqD,OAGC,YAAAY,IAAZ,EhB+NjB,eAAW,oBgBIoc,KhBkOnB,KAAK,CAAL,iBAAN,CgB/
NiB,C;O;KALtD,C;0FAGA,yB;MAAA,8C;MAAA,wB;QAEsD,mBAAY,IAAZ,EAAkB,KAAIB,C;O;KAFtD,C;0F
AIA,yB;MjBgMA,WAS6D,wB;MAT7D,+B;MiB3KA,oD;MARBA,wB;QAMsD,OAqBA,eAAe,IAAf,EjB8KjB,eA
AW,oBiBnMe,KjBmMpB,KAAK,CAAL,UAAN,CiB9KiB,C;O;KA3BtD,C;0FAOA,yB;Mf0LA,aAS6D,0B;MAT7
D,+B;Me5KA,oD;MAdA,wB;QAMuD,OAcD,eAAe,IAAf,Ef+KjB,eAAW,oBe7LgB,Kf6LrB,KAAK,CAAL,YAA
N,Ce/KiB,C;O;KAPtD,C;0FAOA,yB;MhBsMA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MAPA,wB;QAMqD,OA
OC,eAAe,IAAf,EhBkMjB,eAAW,oBgBzMc,KhByMnB,KAAK,CAAL,iBAAN,CgBIMiB,C;O;KAbtD,C;0FAOA,
yB;MAAA,oD;MAAA,wB;QAMsD,sBA Ae,IAAf,EAAqB,KAArB,C;O;KANtD,C;oGAQA,yB;MjBmKA,WAS6D,
wB;MAT7D,+B;MiBpMA,8C;MAiCA,wB;QAMkD,OArCI,YAAAY,IAAZ,EjB2MjB,eAAW,oBiBtKgB,KjBsKrB,
KAAK,CAAL,UAAN,CiB3MiB,C;O;KA+BtD,C;oGAOA,yB;Mf6JA,aAS6D,0B;MAT7D,+B;MerMA,8C;MAwC
A,wB;QAMmD,OA5CG,YAAAY,IAAZ,Ef4MjB,eAAW,oBehKiB,KfgKtB,KAAK,CAAL,YAAN,Ce5MiB,C;O;KA
sCtD,C;oGAOA,yB;MhByKA,kBAS6D,sB;MAT7D,+B;MgBxNA,8C;MA+CA,wB;QAMiD,OAnDK,YAAAY,IAA
Z,EhB+NjB,eAAW,oBgB5Ke,KhB4KpB,KAAK,CAAL,iBAAN,CgB/NiB,C;O;KA6CtD,C;oGAOA,yB;MatDA,8
C;MA sDA,wB;QAMkD,OA1DI,YAAAY,IAAZ,EA0DA,KA1DA,C;O;KAoDtD,C;0FAQA,yB;MjBsIA,WAS6D,wB
;MAT7D,+B;MiB3KA,oD;MjB4OJ,0B;MAAA,+B;MiBvMI,wB;QAQ6C,OjB0MP,eAAW,OiBjPK,eAAe,IAAf,Ej
B8KjB,eAAW,oBiBvIM,KjBuIX,KAAK,CAAL,UAAN,CiB9KiB,CA4KjB,KjBqEY,SAAX,C;O;KiBINtC,C;0FAS
A,yB;Mf8HA,aAS6D,0B;MAT7D,+B;Me5KA,oD;Mf6OJ,4B;MAAA,iC;Me/LI,wB;QAQ+C,OfkMP,gBAAY,QeIP
E,eAAe,IAAf,Ef+KjB,eAAW,oBe/HQ,Kf+Hb,KAAK,CAAL,YAAN,Ce/KiB,CAsLf,Kf4Da,SAAZ,C;O;Ke1MxC,
C;0FASA,yB;MhBwIA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MhBkQJ,6B;MgB3MI,wB;QAQ2C,OhB8MP,cgBv
QkB,eAAe,IAAf,EhBkMjB,eAAW,oBgBzII,KhByIT,KAAK,CAAL,iBAAN,CgBIMiB,CAGMnB,KhBuEW,QAAV
,C;O;KgBtNpC,C;0FASA,yB;MAhEA,oD;MAGEA,wB;QAQ6C,OAIES,eAAe,IAAf,EAkEL,KAIEK,C;O;KA0DtD
,C;0EAUA,yB;MAAA,+B;MAAA,mB;QAM0C,sBAAM,SAAK,MAAX,C;O;KAN1C,C;0EAQA,yB;MAAA,+B;

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.....;YnIsEA,iB;;K;.....
.....
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.....;So
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CH,C;kBACJ,C;iBACD,C;mBACE,C;sB3KuyCH,O;;;uBkd3zCzB,W0JoCkC,yB1JpClC,C;;;CzEjFX,E;" }

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* /opt/cola/permits/1265052934_1643879924.85/0/kotlin-1-6-10-tgz/package/kotlin.js.map

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1.1776 jest-environment 25.5.0

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1.1777 jakarta-validation-api 2.0.2

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*/
```

Found in path(s):

```
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/Validator.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Past.java

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1.1778 klona 2.0.4

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1.1782 postcss-initial 3.0.4

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Martin Richards
23 February 2007

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version 1.2.11, January 15th, 2017

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    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
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** Rick Grehan, BYTE Magazine

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1.1789 axobject-query 2.2.0

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1.1790 cssmin 0.4.3

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Description

This is a node.js module that minimize CSS files (cssmin).

It uses a port of YUICompressor made in JavaScript by Stoyan Stefanov based on Isaac Schlueter work.

[For more informations about YUICompressor](<https://github.com/yui/yuicompressor>)

Installation

You can either download the plugin and unzip it into to your project folder or you can use npm to install the cssmin package.

```
npm -g i cssmin
```

Usage

The module exports the cssmin function, so you can use it with :

```
var cssmin = require('cssmin');
```

The function cssmin takes two arguments :

* input : the CSS content you want to minimize.

* linebreakpos : the number of characters before the end of the line. If empty, the output will have only one line.

Example :

```
var puts = require('util').puts,
```

```
fs = require('fs'),
```

```
cssmin = require('./cssmin');
```

```
var css = fs.readFileSync("/Any/Random/CSS/File.css", encoding='utf8');
```

```
var min = cssmin(css);
```

```
puts(min);
```

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/**

* cssmin.js

* Author: Stoyan Stefanov - <http://phpied.com/>

* This is a JavaScript port of the CSS minification tool

* distributed with YUICompressor, itself a port

* of the cssmin utility by Isaac Schlueter - <http://foohack.com/>

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*/

/*

* YUI Compressor

* <http://developer.yahoo.com/yui/compressor/>

* Author: Julien Lecomte - <http://www.julienlecomte.net/>

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1.1791 ajv 6.12.6

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1.1792 jackson-jaxrs 2.12.2

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

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1.1793 spring-boot 2.4.5

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- >>> JOpt Simple (net.sf.jopt-simple:jopt-simple)
- >>> ASM 4.0 (org.ow2.asm:asm)

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- >>> JSON library from Android SDK (com.vaadin.external.google:android-json)
- >>> Apache Commons Codec (commons-codec:commons-codec)
- >>> Apache HttpClient (org.apache.httpcomponents:httpclient)
- >>> Apache HttpCore (org.apache.httpcomponents:httpcore)
- >>> Plexus Cipher: encryption/decryption Component (org.sonatype.plexus:plexus-cipher)
- >>> Plexus Security Dispatcher Component (org.sonatype.plexus:plexus-sec-dispatcher)
- >>> Apache Commons Logging (commons-logging:commons-logging)
- >>> Apache Groovy (org.codehaus.groovy:groovy)
- >>> Maven Aether Provider (org.apache.maven:maven-aether-provider)
- >>> Maven Model (org.apache.maven:maven-model)
- >>> Maven Model Builder (org.apache.maven:maven-model-builder)
- >>> Maven Repository Metadata Model (org.apache.maven:maven-repository-metadata)
- >>> Maven Settings (org.apache.maven:maven-settings)
- >>> Maven Settings Builder (org.apache.maven:maven-settings-builder)
- >>> Plexus :: Component Annotations (org.codehaus.plexus:plexus-component-annotations)
- >>> Plexus Common Utilities (org.codehaus.plexus:plexus-utils)
- >>> Plexus Component API (org.codehaus.plexus:plexus-component-api)
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- >>> Aether Connector Basic (org.eclipse.aether:aether-connector-basic)
- >>> Aether Implementation (org.eclipse.aether:aether-impl)
- >>> Aether SPI (org.eclipse.aether:aether-spi)
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>>> org.sonatype.plexus:plexus-sec-dispatcher
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>>> org.codehaus.groovy:groovy
>>> org.apache.maven:maven-aether-provider
>>> org.apache.maven:maven-model
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1.1794 jersey-servlet 1.19.4

1.1795 indent-string 3.2.0

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Manifest-Version: 1.0

Bnd-LastModified: 1644098851622

Build-Jdk: 11.0.13

Built-By: fabian

Bundle-Description: Core instrumentation library for the simpleclient.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient
Bundle-SymbolicName: io.prometheus.simpleclient
Bundle-Version: 0.15.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client;uses:="io.prometheus.client.exemplars";version="0.15.0",io.prometheus.client.exemplars;uses:="io.prometheus.client.exemplars.tracer.common";version="0.15.0"
Import-Package: io.prometheus.client.exemplars.tracer.common;version="[0.15,1)",io.prometheus.client.exemplars.tracer.otel;version="[0.15,1)",io.prometheus.client.exemplars.tracer.otel_agent;version="[0.15,1)"
Tool: Bnd-2.1.0.20130426-122213

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* /opt/cola/permits/1332541519_1653371833.439189/0/simpleclient-0-15-0-jar/META-INF/MANIFEST.MF

1.1797 system-io-compression-zipfile 4.0.0.0

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Martin Richards
23 February 2007

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="$(TargetsUnix) == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
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/*

** BYTEmark (tm)

** BYTE Magazine's Native Mode benchmarks

** Rick Grehan, BYTE Magazine

**

** Create:

** Revision: 3/95

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1.1799 postcss-media-query-parser 0.2.3

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1.1801 generate-function 2.3.1

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1.1802 crypto-browserify 3.12.0

1.1803 log4net 2.0.12

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

By Sean Eron Anderson
seander@cs.stanford.edu

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1.1812 reload4j 2.19.0

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